

Hydropower symposium - Theatre - 818 pax

Concurrent Session 3 - Chandelier Room - 50 pax

Main theatre - Theatre - 177 pax

Concurrent Session 2 - Elizabeth B - 100 pax

Concurrent Session 1 - Elizabeth A - 80 pax

Boardroom (side meetings)

TUESDAY DECEMBER 11TH - CONFERENCE DAY 1

7:30  
8:30  
9:15  
10:00  
10:45  
11:10

Registration Desk Open  
Conference Introduction  
Keynote Speaker 1 - Indigenous Engagement & Inclusion In Fish Passageway Initiatives - Phil Duncan  
Keynote Speaker 2 - Fish Passage; the Art of the Possible - Martin Mallen-Cooper  
Vendor 1 Minute Pitches (12x)  
Morning Tea

TUESDAY 11th DEC

		<i>Hydropower &amp; Fish Symposium</i> <i>Session Chair: Lee Baumgartner</i>	<i>Fish Guidance and Diversion Screening</i> <i>Session Chair: Craig Boys</i>	<i>River connectivity and fish passage</i> <i>Session Chair: Luiz Silva</i>	<i>Non-salmonid passage</i> <i>Session Chair:</i>	<i>Fish Passage Design - Road Crossings</i> <i>Session Chair:</i>
11:40	Session 1:1	51361: The Xayaburi fishpass system design concept and development, <b>Dr Michael Raeder</b>	52424: Influence of hydraulics on the downstream migratory route of Atlantic salmon (Salmo salar) , <b>Ana Teixeira da Silva</b>	52821: Fishway targets should support population viability - Metapopulations, habitat shifts and gene flow, <b>Martin A Wilkes</b>	52812: Passage of pouched lamprey (Geotria australis ) in vertical-slot fishways, <b>Brenton Zampatti</b>	52818: Swimming in a 3D world: sediment deposition affects passage and behavior of juvenile rainbow trout in a baffled laboratory flume, <b>Jason Duguay</b>
12:00	Session 1:2	51362: Modification of Navigation Locks for upstream fish migration, <b>Thanasak Poomchiavej</b>	52735: Behavioural guidance of outmigrating eels in a large river system, <b>Thomas Pratt</b>	52306: Why landscape connectivity matters to fish populations., <b>John Koehn</b>	51295: Upstream passage and attempt behaviour at a sloping weir by migrating adult river lamprey: are studded tiles effective in improving longitudinal connectivity?, <b>Jeroen Tummers</b>	52888: Stairs Pipe culverts: flow simulations and implications for European and Brazilian fishes, <b>Hersilia Santos</b>
12:20	Session 1:3	52368: Fish passage at the Don Sahong dam site, Khone Falls, Mekong River, southern Laos, <b>Mr Kent Hortle</b>	52803: Evolution of the fish sorting and debris handling system at the Swift Hydroelectric Project Floating Surface Collector for juvenile salmonids, <b>Dana E Postlewait</b>	52631: Move it or lose it: restoring movement pathways for fish in freshwater rivers, <b>Jason Thiem</b>	52772: Quantifying the fine-scale behaviour of spawning run river lamprey (Lampetra fluviatilis ) approaching a low-head weir retrofitted with studded tiles, <b>Jim R Kerr</b>	52722: Fish passage hydrodynamics New Zealand context , <b>Morten MK Knapp</b>

12:40 Lunch

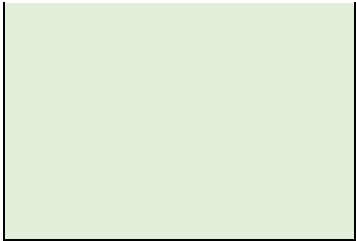
		<i>Hydropower &amp; Fish Symposium</i> <i>Session Chair:</i>	<i>Fish Guidance and Diversion Screening</i> <i>Session Chair: Craig Boys</i>	<i>River connectivity and fish passage</i> <i>Session Chair:</i>	<i>Non-salmonid passage</i> <i>Session Chair: Lee Baumgartner</i>	<i>Fish Passage Design - Road Crossings</i> <i>Session Chair:Matthew Gordos</i>
13:30	Session 2:1	52755: Teasing out the impacts of hydropower on fisheries in the Lower Mekong Basin, <b>Prof Ian Cowx</b>	52958: CFD modeling of fish exclusion screens, <b>Amir Isfahani</b>	52695: Partial migration: some causes, consequences and connectivity, <b>Anders Nilsson</b>	52832: Body size, experience and sex do matter: Multiyear study shows improved passage rates for alewife (Alosa pseudoharengus ) through small-scale Denil and pool-and-weir fishways, <b>Aaron Spares</b>	52951: Fish Passage Considerations though Slip-Lined Culverts with and without Baffles, <b>Blake P Tullis</b>
13:50	Session 2:2	52809: Understanding mortality mechanisms in hydro power plants: implications for Mekong hydropower development, <b>Garry Thorncraft</b>	52781: Ultrasound to guide American shad toward a spillway, <b>Jean Caumartin</b>	52833: Exploring outcomes and assumptions of successful fish passage in the Murray-Darling Basin using individual-based modelling., <b>Daniel P. Svozil</b>	52830: Improving the conservation status of Arctic grayling: combining laboratory, field and modeling techniques to support the agency-irrigator decision making process, <b>Katey Plymnesser</b>	52868: Improving fish swimming performance through the provision of roughened channel beds: implications for culvert remediation efforts in Australian waterways, <b>Rebecca L Cramp</b>
14:10	Session 2:3	52923: Assessing fisheries and environmental impacts and proposing policy recommendations for sustainable development of Mekong River Basin, <b>Dr So Nam</b>	52776: Group behavioural responses of cyprinids to artificial acoustic stimuli: implications for fisheries management, <b>Helen A.L. Currie</b>	52687: The migrations of amphidromous species: implications for fish passage and water infrastructure, <b>Matt G. Jarvis</b>	52957: What did the shad say to the fishway entrance? More submergence please., <b>Kevin Mulligan</b>	52875: Baffles versus beams: strategies to improve fish passage through culverts., <b>Jabin R Watson</b>
14:30	Session 2:4	52841: Megadams and goliath catfish management in Amazonian scale: running against the wind, <b>Lisiane Hahn</b>	52890: Fish deterrents and screen designs, <b>Peter Ebenwaldner</b>	52819: Development of a fish passage inventory and evaluation of success rates of major fish passages on fish movements through barriers in regulated river systems of China, <b>Jinlong Liu</b>	52975: Arctic Grayling and Denil Fishways: Research to Determine Swimming and Passage Capabilities of Grayling in Relation to Fish Barriers, <b>Kevin Kappenman</b>	52932: Issues and design considerations when negotiating fish passage at everyday road causeways, <b>Jonathan Yantsch</b>
14:50	Session 2:5	52929: Assessing the swimming ability and performance of Schizothorax oconnori to cross velocity barriers in fishway. <b>Xiaotao Shi</b>	52864: Screening the Cohuna Channel to keep native fish in Gunbower Creek, <b>Nicole Bullen</b>	51447: De-congesting London: Improving River Connectivity for Lowland River Fishes in Urban Streams, <b>Angus J Lothian</b>	No speaker	No speaker

15:10 Afternoon Tea

		<i>Hydropower and Fish</i> <i>Session Chair:</i>	<i>Dam Removal</i> <i>Session Chair:</i>	<i>River connectivity and fish passage</i> <i>Session Chair:</i>	<i>Non-salmonid passage</i> <i>Session Chair:</i>	<i>Fish Passage Policy and Management</i> <i>Session Chair:</i>
15:40	Session 3:1	52681: The effect of weir crest width and discharge on passage performance of a potamodromous cyprinid. <b>Jose Santos</b>	52098: DAM REMOVAL EUROPE: REFUTING MYTHS AND SUPPORTING PROFESSIONALS, <b>Herman Wannigen</b>	52706: Sequential fishways reconnect a coastal river, <b>Meaghan L Duncan</b>	52836: Following the migration of glass eel and three-spined stickleback passing Europe's largest pumping station and world's largest sluice, <b>Ben A.B. Griffioen</b>	52953: The Alaska model of fish passage policy, <b>William J Rice</b>
16:00	Session 3:2	52193: Fish Passage Challenges and Opportunities in Indonesia, <b>Dr Arif Wibowo</b>	52296: Capturing the WIIFMs: a citizen handbook tool for influencing public perception of dam removal and fish passage projects, <b>Lisa Hollingsworth-Segedy, AICP</b>	52885: A Fish barrier removal and river connectivity support glenelg river tupong populations., <b>Stephen Ryan</b>	52842: Do silver eel find their way along sluices and pumping stations in highly regulated water systems, <b>Ben A.B. Griffioen</b>	52866: Exploring ways to deliver better fishway management, <b>Justin O'Connor</b>
16:20	Session 3:3	52825: Stress indicators in Prochilodus lineatus breeders during migration through a fish ladder. <b>Sergio Martrakis</b>	52981: A Tale of Two Rivers: Adaptive Management and Monitoring Post-Dam Removal in Low Gradient Coastal Streams of the Northeast USA, <b>Anna E Marshall</b>	52876: Monitoring the Penobscot River Restoration Project: Baseline Data to Inform Ecosystem Response, <b>Molly L Payne Wynne</b>	52784: Migration of juvenile American eels through 2 power generating stations in the St-Lawrence system, <b>Jean Caumartin</b>	52793: River connectivity and fish migrations a missing link in Water Resource Management in South Africa, <b>Gordon C O'Brien</b>

ACIAR Commission Visit Planning meeting - **Dulce Simmanivong**

16:40	Session 3:4	52870: Effectiveness of a fish ladder for two Neotropical migratory species in the Paranj River. <b>Sergio Makrakis</b>	52971: Damming a bedrock cut to daylight a buried stream under an abandoned railroad crossing in the Eel River Canyon of northwest California, <b>Michael Love</b>	52747: Fishways provide catchment-scale improvements to a diadromous fish population upstream of a barrier, <b>Frank Amtstaetter</b>	52677: Enhancing upstream passage solutions for juvenile eels: effects of climbing substrate and ramp placement, <b>Johan Watz</b>	52391: The ecosystem service values of fish ladders in poor counties: Who should pay?, <b>Bethany Cooper</b>
17:00	Session 3:5	52777: Upstream passage of adult sea trout (Salmo trutta ) at a low-head weir with an Archimedean screw hydropower turbine and co-located fish pass, <b>Jamie R Dodd</b>	52787: Dam Removal: When Less is More, <b>Laura Wildman</b>	52846: Barriers benefiting biodiversity: when the lack of upstream fish passage is equally important, <b>Tarmo A Raadik</b>	52949: eDNA as an efficient tool to assess the distribution of European eels upstream of pumping stations, <b>Jon Bolland</b>	52966: Building a national movement to advance barrier removal and fish passage, <b>Amy Singler</b>
17:30	Technology Social Opens					
19:30	Technology Social Ends					



WEDNESDAY DECEMBER 12TH - CONFERENCE DAY 2

TIME	TOPIC
8:00	Registration Desk Open
8:30	Introduction
8:45	Keynote Speaker 3 - Bronwyn Gillanders
9:30	Keynote Speaker 4 - Possible pitfalls in fish passage research and how to avoid them - Juergen Geist
10:15	Distinguished Project Award
10:30	Morning Tea

		<i>Hydropower &amp; Fish Symposium</i>	<i>Fish Passage in the Mekong Basin</i>	<i>Fish Passage Design</i>	<i>Ecology of Connectivity</i>	<i>Non-salmonid passage</i>
		<i>Session Chair: Luiz Silva</i>	<i>Session Chair: Ann Fleming</i>	<i>Session Chair:</i>	<i>Session Chair: Chris Bice</i>	<i>Session Chair:</i>
11:00	Session 4:1	52734: The Importance of a Constructed Near-Nature-Like Danube Fish Way as a Lifecycle Habitat for Spawning, Fish Larvae, Juveniles and Adults at a Long Term View with Remarks on Management. <b>Paul Muelenbroek.</b>	52688: Development of a comprehensive fish passage approach for floodplains of the lower mekong basin, <b>Oudom Phonekhampheng</b>	52318: Merging biology and technology to achieve selective bi-directional fish passage, <b>Daniel Zielinski</b>	52714: Will they stay or will they go? Movement and recruitment dynamics of an iconic Australian freshwater fish in a cold-water impacted River, <b>Zeb Tonkin</b>	52657: Steep grade ahead? Optimizing fishway designs for small-bodied Great Plains fishes., <b>Christopher A Myrick</b>
11:20	Session 4:2	52829: Survival of fish passing downstream at a small hydropower facility, <b>Stephen Amaral</b>	52179: Wetland fish communities above stream regulators with and without fish passage in Lao PDR, <b>Douangkham Singhanouvong</b>	52912: Developing a theoretical model to help design ecologically-friendly fishway of the endangered fish species, scale-less carp ( <i>Gymnocypris przewalskii</i> ) in the Qinghai Lake watershed, western China, <b>Mengzhen Xu</b>	52974: The role of thermal plasticity in mitigating the negative effects of cold water pollution on fish swimming performance and fitness, <b>Craig E Franklin</b>	52811: The challenge of passing small and large fish in rivers with highly variable hydrology, <b>Martin Mallen-Cooper</b>
11:40	Session 4:3	52820: Surface bypass as a means to protect downstream-migrating fish at a lack of standardized evaluation criteria complicates evaluation of efficacy. <b>Elena-maria Klopries</b>	51844: Householder catch and use of fish before and after a wetland fishway at Pak Peung, Laos PDR, <b>KHAMPHENG HOMSOMBATH</b>	52406: Adding auxiliary discharge into the entrance pool of a fishway: influence of pool design on fish passage, <b>Cornelia Schuetz</b>	52805: Remediation of thermal stratification in an impoundment by the use of an aeration system and its effect on downstream fish assemblages, <b>Nathan Miles</b>	52960: Approaches to nonsalmonid small fish passage in arid areas of the American Intermountain West and Great Plains, <b>William J Rice</b>
12:00	Session 4:4	52835: Low-sloping racks and the importance of bar spacing for fish passage, <b>Olle Calles</b>	52754: A cautionary tale about the inhibitory effects of gated culverts on fish passage restoration efforts, <b>Nathan Ning</b>	52834: Assessing the efficacy of flow restrictor plates in denil fishways for upstream passage of arctic grayling, <b>Katey Plymnesser</b>	52903: Mitigating hypoxic blackwater events in river ecosystems with irrigation infrastructure, <b>Josh Campbell</b>	52415: How low do we go - Advances in fish passage technology for small fish (<100 mm long!), <b>Tim Marsden</b>
12:20	Session 4:5	52703: Comparison of sonar-, camera- and net-based methods in detecting riverine fish movement patterns. <b>Leonhard Egg</b>	52177: Listening to local knowledge to inform fish passage and fisheries management, <b>Joanne Millar</b>	52620: Different roles for water speed, velocity gradient, and acceleration in reproducing juvenile Pacific salmon trajectories/passage in dammed and tidal free-flowing river environments, <b>R. Andrew Goodwin</b>	52427: A Framework to Evaluate Vulnerability of Upriver Migrants to Existing Hydroelectric Infrastructure and Climate Change, <b>Rebecca Flitcroft</b>	No speaker

		<i>Hydropower &amp; Fish Symposium</i>	<i>Fish Passage in tropical systems</i>	<i>Fish Passage Design</i>	<i>Ecology of Connectivity</i>	<i>Fish Passage Monitoring</i>
		<i>Session Chair:</i>	<i>Session Chair: Michael Roy</i>	<i>Session Chair:</i>	<i>Session Chair: Chris Bice</i>	<i>Session Chair:</i>
13:30	Session 5:1	52897: Predicting barotrauma susceptibility for downstream passage at river infrastructure, <b>Dr Brett Pflugrath</b>	52791: Using otoliths to quantify diadromy in the Lower Mekong Basin, <b>An Vu</b>	52917: Energy efficient fish attraction, <b>Patrik Andreasson</b>	52795: Role of fish migrations and ecosystem connectivity in PROBFO holistic environmental flows assessments in Africa., <b>Gordon C O'Brien</b>	52739: Monitoring PIT-Tag Passage Through Steel Fish Bypass Baffle at Wells Dam, USA., <b>Steve Anglea</b>
13:50	Session 5:2	51746: Injury and Mortality of Two Mekong River Species to Turbulent Shear Forces, <b>Dr Daniel Deng</b>	52676: Assessing the effectiveness of first fish passage facility to enhance sustainability of inland fishery resources in Indonesian River: a case study in Komering River, South Sumatera, Indonesia, <b>Arif Wibowo</b>	52824: Assessing multi slot versus single slot pool-type fishways suitability for potamodromous cyprinids: An experimental approach using numerical modelling and fish, <b>Antonio N Pinheiro</b>	52622: The effects of river discharge and instream barriers on the fish assemblages of the Clarence Basin, New South Wales, Australia., <b>Gavin Butler</b>	52915: Fishways and PIT reader systems: demonstrating the restoration of longitudinal connectivity in the Murray River, Australia., <b>Matthew J Jones</b>
14:10	Session 5:3	52303: Sensing what fish feel about passage through three different low-head hydropower turbines, <b>Dr Craig Boys</b>	52686: Monitoring fish passage and fisheries at the Don Sahong dam site, Khone Falls, Mekong River, southern Laos, <b>Kent Hortle</b>	52789: SEAHAM WEIR ENVIRONMENTAL FLOW CONTROL GATES AND INTEGRATED FISHWAY, <b>Klaas Smit</b>	52760: Barriers to Fish Passage in the Queensland Murray-Darling Basin Phase II: Validation of the <b>Miller</b> method for determining discharge at weir drown-out., <b>Janice L Kerr</b>	52905: Using a multi-antennae passive integrated transponder (PIT) tag system to assess fishway efficiency in a vertical slot fishway, <b>Kris S Pitman</b>
14:30	Session 5:4	TBA: Determining barotrauma in the Pictus catfish, <i>Pimelodus pictus</i> , experimentally exposed to simulated hydropower turbine passage. <b>Dr Luiz Silva</b>	52684: Dazed and confused: why behavioral constraints can impose enormous challenges to fish passage in the Neotropics, <b>Paulo Santos Pompeu</b>	52943: Hydraulic design of an optimised vertical-slot fishway targeted at multi-range fish-biology based design criteria for low, medium and high river flows., <b>Heath Robinson</b>	52840: Understanding the effects of flow on the movement of Yellowfish using the FISHTAC programme as a management tool in Southern Africa: Crocodile River, Kruger National Park case study., <b>Matthew J Burnett</b>	52660: Use of a DIDSON acoustic camera improves fishway assessment results and understanding of fish migratory behaviour., <b>Andrew P Berghuis</b>
14:50	Session 5:5	52725: Warning, it's a catfish! Novel approaches are needed to study the effects of rapid decompression on benthonic species. <b>Dr Luiz Silva</b>	52991: Evaluating the placement of PIT tags in tropical river fishes: a case study involving two Mekong River species, <b>Lee J Baumgartner</b>	52673: PROPOSAL AN ENGINEERING SOLUTIONS FOR FISH MIGRATION UPSTREAM AND DOWNSTREAM OVER ONE DISCHARGE SILL LOCATED ON THE BISTRA MĂRULUI RIVER , <b>Răzvan Voicu</b>	52831: A connectivity conundrum for freshwater eels in South Africa: comparative study for relative abundance and distribution of freshwater eels in a highly regulated and free flowing river in South Africa., <b>Céline Hanzen</b>	52363: Fish migration assessment by acoustic telemetry in the lower Ebre river (Catalonia, NE Iberian peninsula, Europe), <b>Marc Ordeix</b>

		<i>Hydropower &amp; Fish Symposium</i>	<i>Fish Passage in tropical systems</i>	<i>Fish Passage Design</i>	<i>Ecology of Connectivity</i>	<i>Fish Passage Monitoring</i>
		<i>Session Chair:</i>	<i>Session Chair: Dr Vanthong</i>	<i>Session Chair: Matthew Gordos</i>	<i>Session Chair:</i>	<i>Session Chair:</i>
15:40	Session 6:1	52804: Flow characteristics in tailrace: understanding how hydrodynamics may attract fish to hydropower plant in South America. <b>Hersilia Santos</b>	52895: The importance of determining and maintaining migration corridors for the Hilsa Shad fishery in Myanmar Inland Rivers. <b>John Conallin</b>	52857: Beyond headloss: do we have the right ecological and hydraulic metrics to determine successful fish passage in rock ramp fishways?, <b>Tim Marsden</b>	52928: Restoring connectivity from the Sea to Hume fishways will help achieve the environmental outcomes of the Murray-Darling Basin Plan., <b>Stuart Little</b>	52405: Advances in machine vision scanning, <b>Steve Dearden</b>

WFMD 2020 Meeting : Herman Wanningen

16:00	Session 6:2	52507: Reservoir provides cool-water refuge for adult Chinook salmon in a trap-and-haul reintroduction program, <b>Matt Keefer</b>	52879: Determining Migration Corridors and Lifecycle cues for Key Commercial, Subsistence and Conservation Freshwater Fish in Myanmar., <b>John Conallin</b>	52877: Restoring coastal connectivity through low cost rock ramp fishways Å , <b>Matt Moore</b>	52921: Investigating larval dispersal patterns: simulating river flows in an experimental tank., <b>Lorena Nogueira</b>	52935: Machine learning for automated sonar monitoring of outmigrating American eel behavior, <b>Paul T Jacobson</b>
16:20	Session 6:3	52648: Optimizing hydropower development and ecosystem services in the Kafue River, Zambia, <b>Prof Ian Cowx</b>	52786: Fish ladder as connectivity in a large Neotropical river: upstream and downstream movements of Prochilodus lineatus, <b>Leandro F Celestino</b>	52432: Kyogle weir a cost effective rock-ramp fishway design, <b>Matt Sorenson</b>	52862: Multiple lines of evidence reveal the contribution of non-diadromous recruitment and the importance of reversing lake outflows for supporting endemic fish populations within New Zealand's longest river., <b>Bruno David</b>	52654: Is automatic monitoring accurate enough?, <b>Magnus T Asgeirsson</b>
16:40	Session 6:4	52682: Hydropower effects on aquatic species: lessons from individual-based modeling. <b>Steven F Railsback</b>	52365: : Seasonal Variation of Fish Migration in Sariakandhi Fish Pass, <b>Bijoy Kumar Ghosh</b>	52891: Targeted improvement of the Dightã Falls hybrid fishway, <b>Penny Rogers</b>	52992: Sins of dams over fishes in Albania, <b>Spase Shumka</b>	52837: Fish behaviour at navigation locks, <b>Raf Baeyens</b>
17:00	Session 6:5	52655: Long-term study of reservoir cascade in Southeastern Brazil reveals spatio-temporal gradient in fish assemblages. <b>Raquel Loures</b>	52904: Impacted fish movement into tropical freshwater wetlands discharging water low in dissolved oxygen; the tail of two wetlands, <b>Trent Power</b>	No speaker	52962: Addressing the Connectivity Conundrumã Vision for Selective Fish Passage Å , <b>Andrew M Muir</b>	No speaker

17:30 Poster Session Opens  
19:00 Poster Session Ends  
19:00 Public Lecture - Zeb Hogan  
21:00 Public Lecture Ends

THURSDAY DECEMBER 13TH - CONFERENCE DAY 3

TIME	TOPIC
8:00	Registration Desk Open
8:30	Introduction
8:45	Keynote Speaker 5 - Addressing connectivity constraints to freshwater fish: a European perspective - Peter Gough
9:30	Keynote Speaker 6 - A "Fluid" perspective on fish passage design and performance - Aline Cotel
10:30	Morning Tea

		<b>Hydropower &amp; Fish Symposium</b>	<b>Downstream Passage</b>	<b>Fish Passage Design</b>	<b>Connectivity and Invasive Species</b>	<b>Strategic Fish Passage Remediation</b>
		<i>Session Chair:</i>	<i>Session Chair:</i>	<i>Session Chair:</i>	<i>Session Chair:</i>	<i>Session Chair:</i>
11:00	Session 7:1	52750: Re-thinking the hydropower design process: reversing global trends in fisheries decline requires new approaches and techniques, <b>Martin Mallen-Cooper</b>	52788: Status of anadromous fish reintroduction and passage investigations at large dams and reservoirs in California, <b>Jonathon Mann</b>	52209: Pool type fish passage with trapezoidal section and Fish passage with stacking boulders, <b>Youichi Yasuda</b>	52860: Use of built barriers in New Zealand streams as a conservation management tool, <b>Sjaan Bowie</b>	52623: NSW Fish Passage Strategy 20 year vision to restore waterway connectivity., <b>Matthew Gordos</b>
11:20	Session 7:2	53120: Avoiding fish passage impacts through basin-wide infrastructure project planning; <b>Dr Alison Bowden</b>	52942: Downstream passage of potamodromous fish at small hydropower plants in Austrian rivers, <b>Pablo Rauch</b>	52729: Honouring the past and creating a future, <b>David Stork</b>	52863: Ecological perspectives on developing methods for selective passage of fish species across anthropogenic barriers, <b>Rob McLaughlin</b>	52936: Connectivity for future freshwater conservation biophysical and institutional issues, <b>Max Finlayson</b>
11:40	Session 7:3	52674: A perspective on the need for assessing the fish transfer risk associated with pumped hydropower schemes, <b>Dr Lizzie Pope</b>	52702: Seasonal and diurnal variation of downstream fish movement at four small-scale hydropower plants, <b>Josef Knott</b>	52911: The corangamite fishway program fish passage in the coastal streams of the otway coast and barwon basins, <b>Denis Lovric</b>	52881: Control of globally invasive common carp: a 10 year commercial trial of the Williams' carp separation cage in a Murray River fishway., <b>Anthony J Conallin</b>	52407: Region-wide expansion of the Salmon Superhighway, USDA Forest Service prioritization of fish passage barriers in the Pacific Northwest Region of the US, <b>James M Capurso</b>
12:00	Session 7:4	52945: River Connectivity: Addressing the exclusion, collection or guidance of fish, debris, algae, and water temperature at dams and power plants in order to provide enhanced river connectivity, <b>Andy Peters</b>	52827: Potential application of the fish-friendly Alden turbine at large projects and as a replacement unit to improve fish survival at hydropower dams, <b>Stephen Amaral</b>	52985: Fish Friendly Stream Gauging Stations, <b>Matthew J Jones</b>	52653: Selective blockage and removal of invasive sea lamprey in a fishway mesocosm using aversive semiochemicals, <b>Michael Wagner</b>	52893: Improving practical fishway design through a multi-disciplinary approach, <b>Julian Martin</b>
12:20	Session 7:5	52845: Fish friendliness of archimedes screw turbines: quantified by forced fish passage (Albert channel, Belgium). <b>Raf Baeyens</b>	52946: The impact of pumping station entrainment on silver European eels and downstream passage at pumping stations with a gravity bypass channel, <b>Jon Bolland</b>	52964: Gauging weir retrofit using cylindrical clusters for upstream fish passage of non-salmonids, <b>Daniella Montali-Ashworth</b>	52850: Weir going to build a wall, <b>Luke K Pearce</b>	52752: Sea to hume fish passage task force, <b>Jim M Barrett</b>

12:40 Lunch

		<b>Hydropower &amp; Fish Symposium</b>	<b>Downstream Passage</b>	<b>Fish Passage Hydraulics and Modelling</b>	<b>Estuarine Connectivity and Passage</b>	<b>Strategic Fish Passage Remediation</b>
		<i>Session Chair:</i>	<i>Session Chair:</i>	<i>Session Chair:</i>	<i>Session Chair:</i>	<i>Session Chair:</i>
13:30	Session 8:1	52726: Fish injury and mortality in pumping stations a comparison of conventional and fish-friendly pumps, <b>Beate Bierschenk</b>	52937: The impact of a high-head hydropower station on downstream migrating shortfin silver eels(Anguilla australis) , <b>Nicola Baker</b>	52666: Cost Effective Modelling to Improve the Functionality of the Broken Creek Rice Weir and Kennedy Weir Vertical Slot Fishways, <b>Steven Slarke</b>	52816: Restoring fish passage and estuarine ecosystems at tidal barriers: current practice and future directions, <b>Chris Bice</b>	52749: Maintaining fish passage for Queensland's native fish species tools to facilitate fish passage across waterway barriers, <b>Gemma L Mackenzie</b>
13:50	Session 8:2	52796: Evaluation of external and internal fish injury caused by hydropower plants using field-based methods and x-ray technology, <b>Dr Melanie Mueller</b>	52854: Evaluation of a fish friendly pump for increasing the survival of downstream migrating shortfin eels (Anguilla australis) in the Waikato, New Zealand , <b>Mike Lake</b>	52769: Hydraulic Approach for Dimensioning Fish Way Attraction Flow, <b>Martin Henning</b>	53007: Effects of tide gate upgrade or removal on fish passage and habitat quality: a literature review and knowledge synthesis, <b>Guillermo Giannico</b>	52715: Building a fish passage assessment protocol for New Zealand: implementation of Bayesian network models for evaluating the likelihood of fish passage success at instream structures, <b>Paul A Franklin</b>
14:10	Session 8:3	52853: Understanding migration behaviour to guide the development of downstream passage options for shortfinned eels, <b>Dr David Ikedife</b>	52859: The use of a novel acoustic methods for detecting pump impeller strike on downstream migrating eels in New Zealand, <b>Bruno David</b>	52977: A practitioner approach to monitoring hydraulic performance of aquatic organism passage on constructed roughened channels, <b>Joey Howard</b>	52771: Development and application of an agent based model for glass eel selective tidal stream transport , <b>Jasper De Bie</b>	52755: How and where do fish cross the road? a strategic approach to fish-friendly waterway crossings, <b>Scott Nichols</b>
14:30	Session 8:4	52839: Improving fish ladder efficiency by accurately predicting and observing fish movements: results, challenges and opportunities of the case near the hydropower plant of Altusried (Germany). <b>Raf Baeyens</b>	53022: Atlantic salmon smolt migration in a regulated river: are turbines the better choice?, <b>Andrew Harbicht</b>	52642: Optimisation of Fishway Entrance and Exit Conditions Using Physical Modelling: SARFIIP Pike Floodplain Regulator and Fishway Designs, <b>Steven Slarke</b>	52618: Estuarine fish passes in the northern Netherlands provide contrasting windows of opportunity for migrating fish species, <b>Leopold A.J. Nagelkerke</b>	52920: Finding assessing and fixing fish passage problems in Ireland, <b>Alan Cullagh</b>
14:50	Session 8:5	TBA. Fish ladders at small hydropower plants and potential contribution to downstream passage of eggs and larvae. <b>Eduardo Brambilla</b>	52950: The behaviour of downstream migrating silver European eels immediately upstream of a pumping station with a traditional trash rack, <b>Leona Murphy</b>	52948: A comprehensive approach to vertical slot fishway hydraulic analysis, <b>Thomas Ewing</b>	52817: Fish passage at tidal barrier Nieuwe Stanzijl in The Netherlands, a regional perspective., <b>Peter Paul Schollema</b>	52927: This fishways too steep, this fishways too small, this fishways just right: Goldie Perch and the 135 fishways, <b>Matthew Miles</b>

15:10 Afternoon Tea

		<b>Hydropower &amp; Fish Passage</b>	<b>High Level Fish Passage</b>	<b>Fish Passage Design</b>	<b>Reconnecting with Floodplains and Wetlands</b>	<b>Strategic Fish Passage Remediation</b>
		<i>Session Chair:</i>	<i>Session Chair:</i>	<i>Session Chair:</i>	<i>Session Chair:</i>	<i>Session Chair:</i>
15:40	Session 9:1	52727: How different cyprinids perform in an experimental multi slot fishway? Testing its effectiveness in distinct seasons. <b>Jose Maria Santos</b>	52404: Re-defining upstream fish passage, <b>Tom Shearer</b>	52762: Evaluating the performance of a Larinier Super-Active Baffle Fishway to facilitate the upstream movement of three brown trout (Salmo trutta) phenotypes: Anadromous, Potamodromous, and Parr-marked., <b>Angus J Lothian</b>	52972: Build it and they will come. Or will they? Golden Perch in Koondrook Perricoota Forest., <b>Wayne A Robinson</b>	52940: Barrier Tracker - Using citizen science to build the most comprehensive atlas of barriers in Europe, <b>Herman Wanningen</b>
16:00	Session 9:2	52730: Action plan for the optimization of the fish lift built at the Touvedo hydropower plan, NW Portugal, <b>José Maria Santos</b>	52724: Proof of concept for an innovative pump fishway design to move fish upstream over dams, <b>John H Harris</b>	52968: Cooling water temperature gradients in a fishway are associated with poor passage and increased potential for interactions between hatchery and wild salmon , <b>Chris C Caudill</b>	52813: Fish on the run: facilitating fish passage from drying floodplains , <b>Ivor Stuart</b>	52756: Working with recreational fishers to restore native fish populations in the murray darling basin australia, <b>Paul Childs, Troy Bright</b>
16:20	Session 9:3	52919: Advances in Biological Performance Assessment of Turbines within the Industry Context: Representing Fish with Particles and Maximizing Mortality Rates of Unwanted Species, <b>Pedro Romero-Gomez</b>	56405: Hydraulic optimisation of a system for transporting fish in water vertically at near-atmospheric pressure, <b>William Peirson</b>	52892: Designing fishway traps for vertical-slot fishway assessments, <b>Andrew pickworth</b>	52802: Floodplain reconnection and habitat variability act as mitigation measures for sensitive rheophilic fish species in the lower rhine river, the Netherlands, <b>Twan T. Stoffers</b>	No speaker

Supervisory Panel meeting - Vu Vu An

ACIAR Project Team Meeting - Lee Baumgartner

16:40	Session 9:4	52973: Preparing for and implementing gas cap spill for fish passage at lower snake and columbia river dams, <b>Sean C. Mulligan</b>	52790: Australia's first trap-and-haul fishway: Nerang River, Queensland, <b>Steven O'Brien</b>	52933: Passage efficiency of diagonal brush fish pass for different fish species: a field study in Incirli weir in Turkey, <b>Serhat Kucukali</b>	52914: Connecting fish, flows and habitats on lowland river floodplains, <b>Paul Brown</b>	No speaker
17:00	Session 9:5	52969: Hydrosystem Survival and Dam Specific Passage Behavior of Juvenile and Adult Salmon and Steelhead under Gas Cap Spill Operations in the Lower Snake and Columbia Rivers USA, <b>Derek Freyer</b>	51435: Mud Mountain Upstream Migrant Trap & Haul Facility Design, <b>Peter Christensen</b>	52965: Enhancing the Performance of Vertical Slot Fish Pass by Installing Bristles, <b>Serhat Kucukali</b>	52993: Longitudinal shift in Dissolved Organic Matter (DOM) source, concentration and characteristics detected when comparing an altered flow and free-flowing river gradient., <b>Luke McPhan</b>	No speaker
18:30	Conference Dinner Starts					
23:00	Conference Dinner Ends					

