

Fish Passage Conference – Detailed Speaker Schedule

Tuesday, June 14

Vista:

10:30am-12:30pm

“Middle Columbia River: Restoration of tributary confluences, cold water refuge, and sediment management”

Session chair(s): Bill Sharp, Josh Epstein

- **(Virtual)** EPA Columbia River cold water refuge plan – *John Palmer*
- Cool project on a hot river: A basin approach to restoration of the Yakima delta – *Merritt Mitchell-Wajeeh/Mike Porter*
- Evaluation of movement and survival of juvenile Steelhead and Coho in the Klickitat River, Washington, 2018-2019 – *Nicolas Romero*
- Managing sediments released from dam removal to enhance ecological and cultural values – *Josh Epstein*
- Thermal enhancement at the Horsetail Creek - Columbia River confluence – *Matt Cox*

1:45pm-3:45pm

“Charting a course for interagency coordination on fish protection R&D under the U.S. federal hydropower MOU 1”

Session chair(s): Dana McCoskey, Connie Svoboda, Locke Williams

- Overview of the federal hydropower MOU and the DOE Water Power Technologies Office's fish passage and protection R&D priorities – *Dana McCoskey*
- Advancing environmental research priorities at the Bureau of Reclamation – *Connie Svoboda*
- USACE-ERDC capabilities for fish passage – *Locke Williams*
- Spurring innovation through prize competitions – *Jennifer Beardsley*
- Overview of the Justice40 initiative and pathways to achieving a more environmentally just and equitable clean energy transition – *Katie Morrice*
- Collaboration between private industry and DOE's national laboratories – *Brett Pflugrath*

4:15pm-5:35pm

“Charting a course for interagency coordination on fish protection R&D under the U.S. federal hydropower MOU 2”

Session chair(s): Dana McCoskey, Connie Svoboda, Locke Williams

- Fish Protection Prize 2020: Center Sender – *Sterling Watson*
- Deal with the devilfish: A nature-inspired fish protection screen – *Benjamin Mater*
- **(Virtual)** Material enhancement for extended life and monitoring of net diversion systems for aquatic species at dams – *Kenneth LaBry*
- Panel discussion and audience Town Hall Q&A

Horizon A:

10:30am-12:30pm

“Innovative technological solutions for fish and fisheries management and conservation in Africa”

Session chair(s): Céline Hanzen, Matthew Burnett

- Temporal and spatial ecology of an iconic Labeobarbus spp. in a socio-economically important river – *Matthew Burnett*
- Impact of irrigation practices on Gilgel Abay, Ribb and Gumara Fisheries, Tana Sub-Basin, Ethiopia – *Dagnaw Mequanent*

- **(Virtual)** Slippery customers for conservation: diversity, distribution, and spatial ecology of freshwater eels (*Anguilla* spp.) in South Africa. – *Céline Hanzen*
- **(Virtual)** Monitoring the efficacy of a lowland instream barrier on the Thukela River and the importance of river connectivity – *Bradley Van Zyl*
- **(Virtual)** The current status of DNA barcode reference databases for native and introduced freshwater fish in South Africa: Foundational knowledge for future eDNA applications – *Mahlatse Mashaphu*

1:45pm-3:45pm

“Is there a silver bullet for silver eels? 1”

Session chair(s): Jesse Waldrip

- Understanding and estimating turbine and total project survival of silver eels – *Steve Amaral*
- Direct observation and assessment of American eel passage through a Restoration Hydro Turbine – *Sterling Watson*
- **(Virtual)** Reviewing a decade of American eel passage at Roanoke Rapids, NC: Lessons learned from monitoring efforts – *Kevin Mack*
- Behavioral guidance to improve downstream passage survival of American Eel on the St. Lawrence River – *Paul Jacobson*
- **(Virtual)** Comparison of bubble curtain and net barrier for the downstream guidance of *Anguilla Anguilla* – *Velizara Stoilova*
- Hydrodynamic influences of a novel bypass on approaching migrating silver European Eels – *Stephen Collier*

4:15pm-5:35pm

“Is there a silver bullet for silver eels? 2”

Session chair(s): Jesse Waldrip

- Using the Migromat[®] biomonitoring system to predict downstream migration of Anguillid eels – *Audrey Thompson*
- **(Virtual)** Monitoring of silver eel’s downstream migration based on acoustic images: automatic and operational counting method – *Azénor Le Quinio*
- Not just the pump; broader considerations for downstream migrating silver eels at a ‘fish-friendly’ pumping station – *Oliver Evans*
- Maximising the performance of an alternative downstream passage route for silver European eel at pumping stations – *Jonathan Bolland*

Horizon C:

10:30am-12:30pm

“Watershed approaches to fish passage: Past, present, and future 1”

Session chair(s): Melanie Gange, Michael Bailey

- Creating a watershed moment for a watershed approach to fish passage – *Stacie Smith*
- Partnering for a future of fish-friendly stream crossings – *Deborah Hart*
- Managing region wide remediation programs – *Kelly Hughes*
- Applying a strategic watershed approach to the fish passage problem in British Columbia, Canada – *Craig Mount*
- ~~A tale of two rivers – *Twyla Cheatwood*~~
- Facilitating fish passage at a watershed scale: Opportunities and challenges for federal programs – *Melanie Gange*

1:45pm-3:45pm

“Watershed approaches to fish passage: Past, present, and future 2”

Session chair(s): Melanie Gange, Michael Bailey

- Scaling migratory fish population benefits from dam removals – *James Turek*

- Reconnecting the Kootenai River floodplain to restore Burbot (*Lota lota maculosa*) – *Shawn Young*
- Beyond the thalweg: Fish passage in 2-D – *Bill Norris*
- **(Virtual)** The sustainability challenge between irrigated agriculture and sustainable inland fisheries. Using otolith microchemistry in infrastructure planning – *Vu Vi An*
- Channel incision, a watershed scale disturbance influencing fish passage and the role of in-stream wood – *Tim Abbe*
- **(Virtual)** Remediating barriers and restoring salmonid habitat in watersheds with legacy logging impacts in coastal northern California – *Anna Halligan*

4:15pm-5:35pm

“Watershed approaches to fish passage: Past, present, and future 3”

Session chair(s): *Melanie Gange, Michael Bailey*

- **(Virtual)** Flood control improvements within the Lower Fraser Watershed – *Dan Straker*
- **(Virtual)** RADical fish passage – *Abigail Lynch*
- **(Virtual)** Negotiating the future of dams through a systems-based role-play simulation – *Catherine Ashcraft*
- **(Virtual)** Integrated Calapan Lake and Baruyan River, Oriental Mindoro, Philippines watershed development– *Marius Panahon*

Horizon D:

10:30am-12:30pm

“Current trends and knowledge of aquatic organism passage through culverts 1”

Session chair(s): *Shane Scott*

- Effects of environmental and behavioural factors on New Zealand fish swimming performance and upstream passage success – *Rachel Crawford*
- Washington’s Fish Passage Barrier Inventory & Assessment Program – An Overview – *Christy Rains*
- Monitoring and assessment protocol for aquatic organism passage at water crossings – *Casey Kramer*
- Fish passage barrier correction at state highways in Washington state – *Beth Rood*

1:45pm-3:45pm

“Current trends and knowledge of aquatic organism passage through culverts 2”

Session chair(s): *Shane Scott*

- A passage for all: Including wildlife habitat connectivity elements into fish passage projects – *Brian Stewart*
- Use of flexible baffles to improve aquatic organism passage (AOP) through culverts in North America – *Shane Scott*
- **(Virtual)** Culvert baffles: A low-cost fish passage solution – *Nick Scribner*
- When culvert replacement is not an option: Current rehabilitation technologies – *Cassie Jordan*
- Catering to different forms of fish locomotion – *Kelly Hughes*

4:15pm-5:35pm

“New and emerging technologies in fish passage 1”

Session chair(s): Lucas Stiles

- Innovative concept and weir control optimization for the highest fish pass in the Netherlands – *Marq Redeker*
- **(Virtual)** Hydraulic study of auxiliary flow in a pool-type fish pass – *Rachel Indira*
- The fish migration river in the Netherlands – from vision to realization – *Wilco de Bruijne*
- **(Virtual)** Assessing aquatic fragmentation across political boundaries: Building a regional aquatic barrier inventory and prioritization tool that incorporates local relevance and leads to implementation – *Kathleen Hoenke*

Wednesday, June 15

Vista:

10:15am-12:15pm

“When fish passages did not work as intended: Lessons learned and future perspectives 1”

Session chair(s): Luiz Silva, Lisiane Hahn

- **(Virtual)** Effective fish ladders in hydro dams in Himalayan region: Is it possible? – *Tek Gurung*
- ~~**(Virtual)** Fish passage: when the barrier needs to be reinforced – *Angelo Antonio Agostinho*~~
- **(Virtual)** The efficiency of fishways for long-distance migratory species in large dams in the Amazon Basin – *Lisiane Hahn*
- ~~**(Virtual)** Fish passage science: beyond the dam wall – *Fernando Mayer Pelicice*~~
- **(Virtual)** Homing and temporal fidelity: additional challenges to the use of passages as a conservation tool for Neotropical freshwater fishes – *Paulo dos Santos Pompeu*
- **(Virtual)** Downstream passage constraints and floating weir collector use at a medium-sized dam in California – *Haley Ohms*

1:30pm-3:10pm

“When fish passages did not work as intended: Lessons learned and future perspectives 2”

Session chair(s): Luiz Silva, Lisiane Hahn

- Recovery of river connectivity in the Czech Republic: enormous effort along with intensive financial support versus hard reality – *Jiri Musil*
- An open discussion about uncertainties in fish passage science – *Luiz Silva*

“Statistical methods for evaluating fish passage and its effects on fishes 1”

Session chair(s): Russell Perry, Dalton Hance, James Faulkner

- Advances in statistical analysis of fish passage: from instantaneous events to life cycles – *Russell Perry*
- Why should I care about better statistical models for fish passage evaluations and what do better models look like? – *Dalton Hance*
- Jointly modelling covariate effects on survival and mortality – *Quinn Payton*

3:40pm-5:20pm

“Fish passage for diverse audiences”

Session chair(s): Alison Colotelo

- Salmon power: Generating excitement in students – *Rachel Little*

- Once upon a stream: How to recruit heroes to a future fish passage workforce – *Rachel Little*
- Engaging the future fish passage workforce through their teachers – *Alison Colotelo*
- Communicating fish passage science in a digital age – *Kelsey Adkisson*
- History and process for a Distinguished Project Award – Focus on evaluations – *Jon Mann*

Horizon A:

10:15am-12:15pm

“Fish passage challenges and innovation: High head and diversion dams 1”

Session chair(s): Tobias Kock

- Safe passage at Big Bar, Canada – *Vincent Bryan*
- Improving fish migration at the Shannon Hydro-Electric Scheme in Ireland – *Marq Redeker*
- Big dam on the little river: Designing a technical fishway for the Papermill Pond Dam – *Rachael Weiter*
- Feasibility of upstream and downstream fish passage of salmon and steelhead at high-head dams on the Tuolumne River, California – *John Ferguson*
- Designing a fish collector that fluctuates 183 feet in elevation: The floating fish collector for Cougar Dam – *Aaron Litzenberg*
- The unique fish passage at Cle Elum – *Jason Wagner*

1:30pm-3:10pm

“Fish passage challenges and innovation: High head and diversion dams 2”

Session chair(s): Tobias Kock

- Howard Hanson Dam: High head, steep slope, downstream fish passage – *David Doll*
- Speed kills.... or does it? Howard A. Hanson Dam (HAHD) steep slope bypass design – *Ryan Laughery*
- North Fork Dam juvenile collection system performance – *Nick Ackerman*
- ~~Does the passage through a bypass installed in hydropower plant affects the physiological and health status of Atlantic salmon smolts? – *Julie Lucas*~~
- Farmers horizontal flat plate fish screen at Derby Dam in Sparks, Nevada – *Daniel Kaler*

3:40pm-5:20pm

“Statistical methods for evaluating fish passage and its effects on fishes 2”

Session chair(s): Russell Perry, Dalton Hance, James Faulkner

- Modeling passage and survival of juvenile salmon through hydroelectric dams – *James Faulkner*
- An evaluation of factors affecting powerhouse passage of spring migrant smolts at federal dams of the lower Snake and Columbia rivers – *Ryan Harnish*
- Direct and carryover effects of freshwater, marine and fish conditions on juvenile, ocean, and adult survival of Snake River Chinook Salmon – *Jennifer Gosselin*
- Which way did it go? Continuous time multi-state Markov models applied to fish passage data – *Adam Pope*
- Multidirectional, multistate models for resolving adult steelhead migration pathways past dams – *Markus Min*

Horizon C:

10:15am-12:15pm

“Hydropower & fish 1”

Session chair(s): Marcell Szabo-Meszaros, Daniel Deng

- **(Virtual)** Evaluation of the two different type fish passages in River Ceyhan, Turkey in terms of biological and hydrological aspects – *Ahmet Alp*
- **(Virtual)** Efficiency of bypasses associated with inclined or angled low bar-spacing racks to protect Atlantic salmon smolts and European silver eels at small to medium hydropower plants – *Dominique Courret*
- **(Virtual)** Numerical assessment of fish injury risk combining agent-based fish behavior with turbine blade-strike detection – *Dennis Powalla*
- Fish-related performance evaluation of turbines in industry settings – *Pedro Romero-Gomez*
- Design and biological testing of a new turbine runner installed at Ice Harbor Lock and Dam – *Jon Renholds*
- Characterization of the Ice Harbor improved fish passage turbine – *Jayson Martinez*

1:30pm-3:10pm

“Hydropower & fish 2”

Session chair(s): Marcell Szabo-Meszaros, Daniel Deng

- **(Virtual)** Ecological impact scorecard of hydropower plants and mitigation measures – *Serhat Kucukali*
- **(Virtual)** Utility of environmental DNA (eDNA) in hydropower-impacted riverine systems for fish biodiversity and ecosystem assessments, and fish passageways – *Kristine Moody*
- **(Virtual)** A three-phase numerical model to predict TDG downstream of Hells Canyon Dam – *Marcela Politano*
- Development of replicable exploitation cursors implemented to improve silver eel migration at HPP facilities – *Damien Sonny*
- Direct turbine passage survival and injury of adult American eels and river herring at a hydropower project in Maine – *Tyler Parent*

3:40pm-5:20pm

“Hydropower & fish 3”

Session chair(s): Marcell Szabo-Meszaros, Daniel Deng

- Snake River steelhead overshoot and overwintering in the Upper Columbia River Basin – *Joshua Murauskas*
- Trials and tribulations in estimating fish escapement at a dam where migrating fish do not always use the fish ladders – *Jeff Fryer*
- Movement behavior of brown trout (*Salmo trutta*) parr during simulated hydropeaking – An imaging-based tracking approach – *Robert Naudascher*
- Benefits, distribution, and costs of fish passage, fish protection, and flow mitigation requirements created during the US hydropower licensing process – *Brenda Pracheil*

Horizon D:

10:15am-12:15pm

“New and emerging technologies in fish passage 2”

Session chair(s): Lucas Stiles

- **(Virtual)** 10 years experiences and optimizations of the fish lift/lock “der Wasserwirt” – *Bernhard Monai*
- A scaled Denil fishway for upstream passage of Arctic Grayling – *Katey Plymesser*
- **(Virtual)** A successful upstream passage system for European eel *Anguilla anguilla* on the Tirso River (Sardinia, Italy) as a functional and replicable model on low head dams – *Flavio Orru*

- Evaluation of the Whooshh Fish Transport System for passing American shad upstream at hydropower dams – *Steve Amaral*
- **(Virtual)** Fishheart: A hydraulic fishway – *Mika Sohlberg*
- Design and future implementation of selective fish passage research at FishPass – *Daniel Zielinski*

1:30pm-3:10pm

“New and emerging technologies in fish passage 3”

Session chair(s): Lucas Stiles

- **(Virtual)** Experimental investigations of lighting to improve passive sorting of invasive Sea Lamprey from desirable fishes in support of selective fish passage – *Rob McLaughlin*
- Selective passage: Automating invasive removal at fish passage facilities – *Steve Dearden*
- Acoustic tag signal identification using deep learning techniques – *Tracey Steig*
- Optimising environmental DNA (eDNA) metabarcoding through replication: Achieving confidence in the presence/absence of European eel in pumped river catchments – *Nathan Griffiths*
- Results from first deployment of Fathom Vision: A novel AI-based real-time fish detection and species classification system – *Jean Quirion*

3:40pm-5:20pm

“New and emerging technologies in fish passage 4”

Session chair(s): Lucas Stiles

- An introduction to BAFF systems and applications in fish passage – *David Lambert*
- **(Virtual)** Development and evaluation of underwater Acoustic Deterrent Systems (uADS) to control invasive carps – *Marybeth Brey*
- Fish behavioral responses to direct current pulse patterns for use at electric barriers – *Anita Moldenhauer*
- Hydraulic characterization and live fish bio-testing of Natel Energy’s restoration hydro turbine – *Robert Mueller*
- Tobique Narrows downstream fish passage – *Alexander Coulling*

Thursday, June 16

Vista:

10:15am-12:15pm

“Cross-continental fish passage and conservation research network”

Session chair(s): Daniel Zielinski, Ana Silva

- Introduction to the Cross-Continental Fish Passage and Conservation Research Network – *Daniel Zielinski*
- The influence of flow characteristics on the upstream movement of Sea Lamprey at different spatiotemporal scales – *James Kerr*
- Hydraulic impact on fish migration in Sariakandhi fish pass of Bangladesh – *Bijoy Kumar Ghosh*
- **(Virtual)** The Fishpath Project: A new idea for fish downstream guidance – *Ana Silva*

1:30pm-3:10pm

“Fundamental Science”

Session chair(s): TBD

- Modeling upstream orientation of trout in a wide laboratory flume – *David Gisen*
- A matter of scales: Addressing allometry when predicting passage performance through velocity barriers – *Theodore Castro-Santos*
- **(Virtual)** Passage through a fishway entrance at various velocities - results from flume experiments with small non-salmonids – *Martina Heynen*
- **(Virtual)** Factors affecting Northern Pike (*Esox lucius*) leaping ability: implications for barrier design in invaded systems – *Taylor Cubbage*

3:40pm-5:00pm

“Global policies on fish passage: Barriers and opportunities for successful policy and management of freshwater resources”

Session chair(s): Luiz Silva, Chris Henderson

- **(Virtual)** Actions to restore fish passage in New Zealand: From science to policy and back again – *Paul Franklin*
- Laws, regulations, and policies may contribute to weak decision-making processes for fish passages – *Luiz Silva*
- Using structured decision making to assess the consequences of connectivity: A case study in northwest Michigan – *Shane Flinn*
- Cross-disciplinary research perspectives on fish passage policy and community engagement – *Chris Henderson*

Horizon A:

10:15am-12:15pm

“Fish passage challenges and innovation: High head and diversion dams 3”

Session chair(s): Tobias Kock

- Derby Dam fish screen project design – *Kevin Jensen*
- Fish passage improvements at diversion dams on the Yakima River, Washington – *Patrick Monk*
- Survival implications for entrainment by juvenile salmonids at diversion dams on the Yakima River, Washington – *Tobias Kock*
- The Nelson Dam Project: A multi-benefit approach to diversion dam replacement on the Naches River, WA – *Mike Garello*
- The new Sacramento River weir: A complex fish passage facility integrated into a modern floodway project – *Robert Chase*

1:30pm-3:10pm

“Biotelemetry for fish passage: Current capabilities, applications, and future advances 1”

Session chair(s): Daniel Deng, Ted Castro-Santos, Lee Baumgartner

- A new, non-invasive fish backpack biollogger to measure the physical conditions experienced by swimming fish during downstream passage – *Falko Wagner*
- Preliminary findings on the efficacy and performance of the Innovasea V3D predation tag – *Michael Sears*
- Lab-on-a-Fish – *Jun Lu*
- A miniature radio-frequency transmitter and 3D tracking – *Hayden Whitbread*
- Development of implantation methods for acoustic transmitters in juvenile American Shad – *Kate Deters*

3:40pm-5:00pm

“Biotelemetry for fish passage: Current capabilities, applications, and future advances 2”

Session chair(s): Daniel Deng, Ted Castro-Santos, Lee Baumgartner

- Making large scale telemetry projects repeatable and efficient with open-source software – *Kevin Nebiolo*
- Downstream passage of JSATS-tagged European silver eels through 10 hydropower projects on the Lahn River, Germany to evaluate

suitability of using out-of-basin fish to supplement sample size in depressed populations – *Audrey Thompson*

- Development, installation and assessment of the world's largest RFID fish detection system – *Gordon Axel*
- High Speed Spillway PIT-Tag Detection at Lower Granite Dam, Snake River – *Steve Anglea*

Horizon C:

10:15am-12:15pm

“Dam decommissioning and removal: State of the practice and future perspectives 1”

Session chair(s): Michael Burke, Martin Melchior, Mackenzie Butler

- Dam decommissioning and removal symposium overview – *Michael Burke*
- Restoring the Ottaway, Part I: Boardman River Dam Removal and Ecosystem Restoration through Tribal and Local Stakeholder Motivation – *Brett Fessell*
- **(Virtual)** Restoring the Ottaway, Part II: Boardman River Dam Removal and Ecosystem Restoration Infrastructure, Engineering, and Construction Perspectives – *Troy Naperala*
- **(Virtual)** Dam removal in the Carmel River Watershed, California – *Seth Gentzler*
- **(Virtual)** Carmel River reroute and dam removal project: Challenges in design and construction of a step-pool channel – *Robert Mussetter*
- **(Virtual)** Increasing the scale and pace of dam removal in Massachusetts – *Beth Lambert*

1:30pm-3:10pm

“Dam decommissioning and removal: State of the practice and future perspectives 2”

Session chair(s): Michael Burke, Martin Melchior, Mackenzie Butler

- **(Virtual)** Willingness to pay for small dam removal: A hedonic analysis of Plymouth, Massachusetts – *Mike Cahill*
- **(Virtual)** Cost drivers of dam removal – *Desiree Tullos*
- Smarter not harder: Dam removal and sustainable infrastructure – *April McEwen*
- **(Virtual)** Overcoming challenges for floodplain and channel restoration with dam removal – *Martin Melchior*
- Reconnaissance-Level Studies for Dam Removal – *Michael Chelminski*

3:40pm-5:00pm

“Dam decommissioning and removal: State of the practice and future perspectives 3”

Session chair(s): Michael Burke, Martin Melchior, Mackenzie Butler

- **(Virtual)** Albright Power Station dam removal: Reconnecting 74.6 miles of the Cheat River – *Madison Ball*
- Opportunities for training dam removal practitioners (Cut along this line?) – *Michael Chelminski*
- **(Virtual)** Building a national movement to advance fish passage through barrier removal – *Amy Singler*
- Identifying and overcoming issues with the removal of hydroelectric dams – *Bjorn Lake*

Horizon D:

10:15am-12:15pm

“Design, application, and performance of nature-like fishways”

Session chair(s): Tim Brush, Michael Burke, Mackenzie Butler

- **(Virtual)** Modifying a nature-like fishway on the Cape Fear River, NC – *Kevin Mack*

- **(Virtual)** Hydrodynamics of a nature-like step-pool fishway – *Sruthi TK*
- Innovative designs require innovative approaches: CFD-based design of the Saccarappa Falls nature-like fishway – *Benjamin Mater*
- Hydraulic roughness parameterization in an NLF design - a post-project review – *Michael Burke*
- Biological effectiveness monitoring of nature-like fishways; a design perspective – *Mackenzie Butler*
- The Atlantic Coast nature-like fishway guidelines – derivation, use, and plans for the future – *Bjorn Lake*

1:30pm-3:10pm

“Nature-like fishways: Current philosophy and innovative design 1”

Session chair(s): Randy Beckwith

- Energy dissipation in nature-like fishways – a 2D perspective – *Stuart Beck*
- A new approach to steep channel design – *Tim Abbe*
- Examples of nature-like fishway design considerations in steep/high energy channels – *Paul DeVries*
- Overcoming constraints to design the Island Farm Weir NLF – *Tyler Kreider*

3:40pm-5:00pm

“Nature-like fishways: Current philosophy and innovative design 2”

Session chair(s): Randy Beckwith

- **(Virtual)** Award winner – Restoring the continuity of two rivers in southern Poland - *Roman Zürek*
- Nelson Dam removal – Use of physical and numerical modeling to design of a nature-like roughened channel fishway – *Vaughn Collins*
- Nelson Dam replacement project: Final design, material sourcing, and construction methods – *Mike Garello*
- Middle Fork Nooksack Dam removal, river modification to restore fish passage, and water supply improvement – *Brad Johnson*

Posters:

Discovery Hall Lobby

Tuesday, June 14

5:30pm-8:00pm

“Poster Session – during Welcome Reception”

- Floodplain restoration downstream of a flood control/hydroelectric dam in the Willamette Valley, Oregon – *Rebecca Flitcroft*
- Restoration of the longitudinal connectivity at hydro power plant chain at Drava River in Austria – *Helmut Mader*
- Large Scale Particle Image Velocimetry (LSPIV) within a Rock Ramp Fishway – *Amiana Manser*
- Composite fishway – *Stefan Stridsman*
- Deep Learning for Fish Identification from Sonar Data – *Xiaoqin Zang*
- Biological Performance Assessment toolset for evaluating downstream passage of hydroturbines – *Rajesh Singh*
- A study of fish flow field preference behaviour based on 3D trajectory observations – *Xiaotao Shi*
- Mitigating mainstem thermal passage barriers with cool water refuge – Amon Creek Pilot Project on the Yakima River, Richland, Washington - *Marcella Appel*
- Process-based Fish Passage Restoration after Dam Removal Under Climate Extremes: York Creek, Napa County, California – *Virginia Mahacek*