

| Room | The Conference Center - 301 | The Conference Center - 302 | The Conference Center - 303 | The Conference Center - 304 |
|---------------------------|--|--|--|---|
| WEDNESDAY, SEP. 7 | <u>Catch Share Programs in U.S. Commercial Fisheries</u> | <u>Reflections on Forest Management: Can Fish and Fiber Coexist?. Part 2</u> | <u>Adaptability of Fish Life Histories</u> | <u>Using Acoustic Telemetry Techniques to Estimate Fish Survival and Behavior</u> |
| Moderator | Jane DiCosimo | Bob Danehy | Jeff Hutchings; Anna Kuparinen | Patrick Nealson; Tracy Steig; J. Jeffery Isely |
| 8:00 AM | Catch Share Systems: Requirements for Success Brian Rothschild 84-1 | Cutthroat Trout Population Dynamics in Forest Ecosystems Robert E. Gresswell 92-1 | Adaptability of Fish Life Histories Steven X. Cadrin 85-1 | A Multi-Spatial Scale Evaluation of Migratory Fish Behavior in a Heavily Urbanized and Managed Waterway Using Fine-Scale Acoustic Tracking Mark T. Celedonia 96-1 |
| 8:15 AM | Catch Share Plan for Surfclams & Ocean Quahogs (1990) Thomas B. Hoff 84-2 | Forest Management Options to Maintain Hydrologic Connectivity in Boreal Forest Streams of Ontario Robert W. Mackereth 92-2 | Old Wine in New Bottles: A Review of Reaction Norms in Salmonids Jeffrey Hutchings 85-2 | Fine-Scale Acoustic Tracking of Juvenile Salmonids around Engineered Logjams in the Elwha and Hoh Rivers Roger Peters 96-2 |
| 8:30 AM | Catch Share Plan for Wreckfish (1991) Kate Quigley 84-3 | Estimating Erosion Risks from Road Networks C. H. Luce 92-3 | | Fine-Scale Acoustic Tracking of Small-mouth Bass, Northern Pike-minnow, and Prickly Sculpin in Lake Washington Roger A. Tabor 96-3 |
| 8:45 AM | Western Alaska Community Development Quota Program Sally Bibb 84-4 | Passage of Native Cutthroat Trout Through Small Culverts on Steep Slopes: What Are the Limits? N. P. Peterson 92-4 | Patterns and Strength of Selection in Wild Fish Populations Stephanie Carlson 85-3 | Using Acoustic Telemetry to Assess Compliance with BiOp Survival Standards at Federally Operated Columbia River Dams John R. Skalski 96-4 |
| 9:00 AM | Halibut and Sablefish IFQ Program Jane DiCosimo 84-5 | The Importance of In-Stream Cover to Cutthroat Trout Emigration B. Penaluna 92-5 | Plasticity in the Molecular Phenotype of Threespine Stickleback Matthew R.J. Morris 85-4 | Estimating Survival Adjusted for Tag Failure in an Acoustic-Tag Study Using the ATLAS Program Rich Townsend 96-5 |
| 9:15 AM | Charter Halibut IFQ Program Jane DiCosimo 84-6 | Trashy Accommodations: Where Crayfish Dwell When Cover Is Limited Due to Historic Land Use Practices S.B. Adams 92-6 | Gene-Environment Interactions for Growth and Gene Expression within Panmixia: Relevance for the Conservation and Management of American Eel Bernatchez Louis 85-5 | Estimating Salmon Survival in a Complex Environment Rebecca Buchanan 96-6 |
| 9:30 AM | Bering Sea Pollock Cooperatives under the American Fisheries Act Sally Bibb 84-7 | Fish Assemblages and Small Wood in an Incised Sand-Bed Stream of the Upper Gulf Coastal Plain Melvin L. Warren Jr. 92-7 | Disentangling Evolution and Plasticity in Adult Sockeye Migration Date: A New Method Provides Evidence of Evolutionary Change Lisa Crozier 85-6 | Fine-Scale Fish Behavior in Real Time with Acoustic Tags Samuel Johnston 96-7 |
| WEDNESDAY AM BREAK | | | | |
| Moderator | Jane DiCosimo | C. A. Dolloff | Jeff Hutchings; Anna Kuparinen | Patrick Nealson; Tracy Steig; J. Jeffery Isely |
| 10:15 AM | Catch Shares in New England Groundfish Sectors William Whitmore 84-8 | The U.S. Forest Service's Collaborative Forest Landscape Restoration Program: an Overview of a New Approach to Ecosystem Restoration Megan Roessing 92-8 | Synergistic Effects of Hybridization and an Invasive Pathogen on Extinction Kjetil Hindar 85-7 | Using Acoustic Tags to Estimate the Potential Impact of Exports on Juvenile Salmon Survival Through the Delta Patricia Brandes 96-8 |
| 10:30 AM | Crab Rationalization after Five Years – Innovation Becoming the Norm Forrest Bowers 84-9 | Understanding Processes Influencing Fish in Headwater Streams: Implications for Studying Impacts of Forestry Jason Dunham 92-9 | Human-Mediated Evolution in a Threatened Species? Robin Waples 85-8 | Acoustic Telemetry Evaluations of Non-Physical Fish Barriers and Fish Protection Facilities in the Central Valley of California Mark Bowen 96-9 |
| 10:45 AM | Gulf of Mexico Individual Fishing Quota Programs Stephen A. Bortone 84-10 | Structure and Function Reflect Salmon Enrichment and Disturbance in Alaska Streams Influenced by Timber Harvest Peter S. Levi 92-10 | Phenotypic Plasticity in Age and Size at Maturation and Its Implications to PMRN Approach Anna Kuparinen 85-9 | Use of Mobile Acoustic Tag Tracking Surveys to Further Evaluate Fixed-Array Survival Studies Jason Guignard 96-10 |
| 11:00 AM | Catch Share Plan for Central Gulf of Alaska Rockfish Pilot (2007) Glenn Merrill 84-11 | Effects of Different Riparian Timber Harvest Intensities on Brook Trout Bioenergetics Kyle J. Hartman 92-11 | Correlated Contemporary Evolution in New Zealand Salmon: Implications for PMRN Inferences Michael T. Kinnison 85-10 | Migration Results of Acoustically Tagged Salmon Smolts at Rocky Reach and Rock Island Dams on the Columbia River Tracey W. Steig 96-11 |
| 11:15 AM | Catch Share Plan for Mid-Atlantic Golden Tilefish (2009) Jose L. Montanez 84-12 | Biomass and Drift of the River Macroinvertebrates V.V. Bogatov 92-12 | The Relative Importance of Phenotypic Plasticity Versus Evolutionary Change in Predicting Historical Patterns of Maturation in Exploited Stocks Anne Maria Eikeset 85-11 | Acoustic Telemetry Studies: Considerations for Field Deployment Kenneth Cash 96-12 |
| 11:30 AM | Development and Implementation of the Atlantic Sea Scallop IFQ Program Peter Christopher 84-13 | Riparian Forest Conditions Influence Food Supplies for Stream Salmonids: Managing for Increased Aquatic Productivity Mark Wipfli 92-13 | Evolutionary Demography and Phenology in a Wild Steelhead Population Jeffrey J. Hard 85-12 | Sacramento River Steelhead Trout: Survival of Wild and Hatchery Smolts Phillip Sandstrom 96-13 |
| 11:45 AM | Pacific Coast Groundfish Trawl – A Transition from Trip Limits to Catch Shares Corey Niles 84-14 | Food Production as Estimated by Drift in a Managed Watershed During Summer Baseflow R.J. Danehy 92-14 | Fisheries-Induced Adaptation Under Influence of Climate Change: A Reaction-Norm Perspective for Resident Salmonids Thrond Haugen 85-13 | Fine Scale Movement and Habitat Utilization of Adult Green Sturgeon in the Upper Sacramento River Michael Thomas 96-14 |

| Room | The Conference Center - 305 | Washington State Convention Center - 3A | Washington State Convention Center - 3B | Washington State Convention Center - 401 |
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| WEDNESDAY, SEP. 7 | <u>Potential Effects of Ocean Acidification on Fisheries and Other Marine Resources</u> | <u>Global Fisheries: Balancing Overfishing and Food Production</u> | <u>Conservation Genetics and Genomics in Fisheries. Part 1</u> | <u>Stocking Conservation Issues: Integrative Methods in Recreational Fisheries: Science and Policy of Fish Propagation. Part 1</u> |
| Moderator | John Stein | Cleve Steward | Jeff Hard | Mike Allen; Mark Rogers |
| 8:00 AM | Keynote: Ocean Acidification and Living Marine Resources Scott Doney 75-1 | 2050 – Will There be Fish in the Ocean? Villy Christensen 87-1 | Genomics and the Future of Conservation Genetics Fred W. Allendorf 83-1 | The History of Stocking David Policansky 94-1 |
| 8:15 AM | | | | Stocking Additions in North America in the 21st Century Phillip Bettoli 94-2 |
| 8:30 AM | Detection of Ocean Acidification in Coastal Waters Richard Feely 75-2 | The Environmental Cost of Fishing - a Comparison to the Alternatives Ray Hilborn 87-2 | European Eel: Panmixia and its Consequences Peter F. Larsen 83-2 | The Role of Stocking in Enhancing Fisheries Kai Lorenzen 94-3 |
| 8:45 AM | Potential Impact of Ocean Acidification on West Coast Shellfish Aquaculture Bill Dewey 75-3 | | When Chum Salmon Meet: Examining a Zone of Secondary Contact in Alaska Using Single Nucleotide Polymorphisms Eleni L. Petrou 83-3 | Welfare Issues Related to Fish Stocking Victoria Braithwaite 94-4 |
| 9:00 AM | Let's Eat Godzilla: The Seafood Industry Confronts Ocean Acidification Brad Warren 75-4 | The Overfishing of Canadian Atlantic Cod: Prospects for Recovery Jeffrey Hutchings 87-3 | Hatchery Genetic Management Techniques for Endangered Species Kathleen Fisch 83-4 | Accounting for Risk and Uncertainty in Stock Enhancement Protocols Ian G. Cowx 94-5 |
| 9:15 AM | Designing Ocean Acidification Experimental Systems: How to Visit the Year 2100 without a Flux Capacitor Paul McElhany 75-5 | Overfishing or Environmental Change: What Causes Changes in the Productivity of Marine Fish Stocks Katyana Vert-Pre 87-4 | Challenges and Opportunities for Genetics-Based Fisheries Management of Recently Diverged Stocks Michael Russello 83-5 | Contrasting Stocking and Length Limits to Improve Fisheries Mike Allen 94-6 |
| 9:30 AM | Marine Organisms on Acid: Effects of Ocean Acidification on Marine Biodiversity Gerald Singh 75-6 | Overfishing—It Is Selective! Shijie Zhou 87-5 | Parentage-Based Tagging of Salmonids with SNP Markers Eric C. Anderson 83-6 | Optimizing Stocking Programs at the Landscape Scale Hillary Ward 94-7 |
| WEDNESDAY AM BREAK | | | | |
| Moderator | Shallin Busch | Eric Knudsen | Linda Park | Mark Rogers |
| 10:15 AM | The Effects of Ocean Acidification on the Nutritional Composition of Phytoplankton for Fishery-Based Foodwebs Andrew L. King 75-7 | Ending Overfishing Through Use of Annual Catch Limits Richard D. Methot Jr. 87-6 | Of Fish and SNPs: The Potential of Genetics for Traceability in European Fisheries Management Sarah Helyar 83-7 | Management Objectives Drive Optimal Stocking Strategies – a Modeling Approach Maja Schlüter 94-8 |
| 10:30 AM | Combined Impacts of Climate Warming and Ocean Carbonation on Eelgrass (<i>Zostera marina</i> L.) Richard Zimmerman 75-8 | An Exposition on Overfishing Brian Rothschild 87-7 | Demographic Factors and Male Behavioral Plasticity Affect Temporal Variation in Effective Breeding Number in Lake Sturgeon Kim Scribner 83-8 | The Effect of Attracted Fishing Effort and Stocking Strategy on Interactions Between Stocked and Wild Fish: a Simulation Approach Ed Camp 94-9 |
| 10:45 AM | Physiological Responses of Benthic Invertebrates to Ocean Acidification and Hypoxia James P. Barry 75-9 | Did Ten Billion Juvenile Sea Scallops Die in the Mid-Atlantic Due to Incidental Fishing Mortality? Kevin D.E. Stokesbury 87-8 | Detecting Genetic Change and Adaptive Variation in Marine Fish: From Empirical Tests to Patterns in the Wild Gary R. Carvalho 83-9 | Multidisciplinary Approaches to Improve Survival of Stocked Hatchery Largemouth Bass Wes Porak 94-10 |
| 11:00 AM | Juvenile Marine Bivalves within Corrosive Sediments: How Do (Or Don't) They Do It? George Waldbusser 75-10 | Unintended Consequences of MSY Proxies Steven X. Cadrin 87-9 | Selection Gradients and Reproductive Success of Hatchery- and Natural-Origin Chinook in Catherine Creek (Grande Ronde) Ewann Berntson 83-10 | Radiotelemetry to Evaluate Survival, Behavior, and Habitat Selection of Stocked Hatchery Largemouth Bass Brandon Thompson 94-11 |
| 11:15 AM | CO2, Krill, & Environment Mark Carls 75-11 | Economic Reasons Why Global Fisheries Must be Overfished Rashid Sumaila 87-10 | Detecting Fitness Difference in the Wild: Power Analysis and Its Application to Salmonid Species Hitoshi Araki 83-11 | Designing a Stocking Program to Learn More about Population Dynamics Julianne E. Harris 94-12 |
| 11:30 AM | Effects of Ocean Acidification on Late Embryogenesis, Larval Condition, and Survival in Red King Crab W. Christopher Long 75-12 | Documenting Global Fishing Effort William Cheung 87-11 | Genomic Islands of Adaptive Divergence and Their Consequences for the Resolution of Spatial Population Structure in a Marine Fish Ian R. Bradbury 83-12 | Stocking as an Emergent Property of Social-Ecological Interactions in a Stochastic World Robert Arlinghaus 94-13 |
| 11:45 AM | Predicting Impact of Ocean Acidification on Invertebrates: Energy Budget Flexibility as a Unifying Principle Sam Dupont 75-13 | Global Overfishing? Using Indicators as Measures of Ocean Health Kristin Kleisner 87-12 | Factors Influencing the Relative Fitness of Hatchery and Wild Spring Chinook Salmon in the Wenatchee River, Washington Sharon Villagecenter 83-13 | Rearing and Stocking of Brown Trout as Perceived by Austrian Fish Culturists Kurt Pinter 94-14 |

| Room | Washington State Convention Center - 4C-1 | Washington State Convention Center - 4C-2 | Washington State Convention Center - 4C-3 | Washington State Convention Center - 4C-4 |
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| WEDNESDAY, SEP. 7 | <u>The Cutting Edge of Bycatch Management: Science, Policy and Engineering, Part 2</u> | <u>Climate Change and Pacific Salmonids , Part 1</u> | <u>Contributed Papers - Salmonids in the Estuarine and Marine Environment</u> | <u>Life History Variability in Marine Fish: Climate and Fishing Induced Controls</u> |
| Moderator | Jake Krizer | James Byrne, Sarah Boon | Demian Ebert | Thomas Helser |
| 8:00 AM | Reducing Megafauna Bycatch through Interfishery Offsets S. Hoyt Peckham 95-1 | Scenarios for Climate Change Impacts on Thermal High Seas Habitats of Pacific Salmon in the North Pacific Ocean and Adjacent Seas Nate Mantua 82-1 | Resident and Migratory Fall Chinook Behavior Patterns throughout Puget Sound Anna N. Kagley 69-1 | Life History, Variance and Time Scales of the Environment Louis W. Botsford 72-1 |
| 8:15 AM | Cooperative Behavior to Avoid Bycatch of Yellowtail Flounder in the Atlantic Sea Scallop Fishery Catherine E. O'Keefe 95-2 | Watershed Scale Stream Temperature Modeling Ryan MacDonald 82-2 | Physiological Correlates of Habitat Utilization by Juvenile Chinook Salmon in the Columbia River Estuary Kyle C. Hanson 69-2 | An Investigation of Northeast Pacific Groundfish Recruitment Variability Driven by Physical and Biological Factors Megan Stachura 72-2 |
| 8:30 AM | Spatial and Temporal Patterns in Ocean Bycatch of River Herring: Developing More Effective Monitoring and Management Strategies Jamie Cournane 95-3 | Are Multi-Decadal Stream Temperature Trends for Least-Disturbed Watersheds of Western North America in Accordance with a Recent Warming Climate? Ivan Arismendi 82-3 | Atlantic Salmon Smolt Migration in the Rivière Saint-Jean, QC and the Gulf of Saint Lawrence: Effect of Environmental Variables and Identification of Migration Pathways Marylise A. Lefèvre 69-3 | Population Dynamics Reflect an Interaction of Life Histories, Fishing, and Temperature Variability: Evidence Drawn from Atlantic Cod Francis Juanes 72-3 |
| 8:45 AM | River Herring and American Shad Bycatch Avoidance in Atlantic Herring and Mackerel Mid-Water Trawl Fisheries N.David Bethoney 95-4 | Climate Change, Forest Management, Stream Temperature and Salmonids R.D (Dan) Moore 82-4 | Assessing Estuarine and Coastal Migration and Survival of Age-1 Hatchery Atlantic Salmon Smolts from the Dennys River, Maine (USA) Using Acoustic Telemetry James P. Hawkes 69-4 | An Early Life History Approach to Understanding Marine Fish Population Responses to Environmental Change Miriam Doyle 72-4 |
| 9:00 AM | Multivariate Analyses to Predict and Avoid Bycatch Events Jason Jannot 95-5 | The Changing Landscape of the Copper River Delta, Alaska: Implications for Understanding Climate Change Gordon Reeves 82-5 | Juvenile Salmonid Migratory Behavior at the Mouth of the Columbia River and within the Plume Geoffrey A. McMichael 69-5 | Temporal and Spatial Patterns of Pacific Cod Spawning in the Bering Sea Sandi Neidetcher 72-5 |
| 9:15 AM | Six Decades of Research on Fishing Gear and Fish Behavior in the North Atlantic Pingguo He 95-6 | An Assessment of 50 Years of Climate Warming on Growth of Juvenile Sockeye Salmon from the Alaska Peninsula Jennifer R. Griffiths 82-6 | Habitat Range Expansion in Atlantic Salmon Cedar Chittenden 69-6 | Gulf of Maine's Changing Haddock Stock Edward Ames 72-6 |
| 9:30 AM | Biomechanics in Fish Passage and Gear Technology: Applications of Swimming Performance Research Theodore Castro-Santos 95-7 | Regional Efforts to Monitor and Model Stream Temperature Patterns Associated with Climate Change Across the Northwest US Daniel Isaak 82-7 | Changes in Juvenile Chinook Habitat and Capacity in Puget Sound Krista K. Bartz 69-7 | Abundance, Distribution, and Life History Characteristics of Mantis Shrimp, Squilla Empusa, in Narragansett Bay, RI Imam Syuhada 72-7 |
| WEDNESDAY AM BREAK | | | | |
| Moderator | Henry Milliken | Doug Beard, Lisa Crozier | Demian Ebert | Miriam Doyle |
| 10:15 AM | Overview of the Bureau of Reclamation's Fish Salvage Facility, Central Valley, CA Cathy Karp 95-8 | Experiments on Altered Thermal Regimes During Early Life Stages of Chinook Salmon E. Ashley Steel 82-8 | Identifying Critical Life Stages and Processes That Determine Marine Survival of Chinook Salmon in Puget Sound Elisabeth Duffy 69-8 | The Incredible Shrinking Weakfish Desmond Kahn 72-8 |
| 10:30 AM | Bottom Seining in Canada Stephen J. Walsh 95-9 | Emergence Timing and Life History in Chinook Salmon Brian Beckman 82-9 | Temporal and Spatial Distribution of Juvenile Spring Chinook Salmon off Washington and Oregon Hao Yu 69-9 | Life History of Alaskan Skates David Ebert 72-9 |
| 10:45 AM | Instrumentation and Remote Monitoring for Fish Passage Samuel Johnston 95-10 | Effects of Water Temperature Changes on Downstream Migratory Behavior in Pacific Salmon Carl Schreck 82-10 | Migration of Late Fall-Run Chinook Salmon and Steelhead Smolts Relative to Dredge Removal and Placement Sites in the San Francisco Bay Estuary Eric D. Chapman 69-10 | Climate Effects on Fish Growth: Integrating Otolith Biochronologies and Somatic Growth of Yellowfin Sole Mary Elizabeth Matta 72-10 |
| 11:00 AM | Importance of Behavior in Fish Passage (and Bycatch Reduction?) Charles C. Coutant 95-11 | Effects of Watershed Characteristics, Stream Temperature, Condition, and Disease on Prespawm Survival in Upper Willamette River Chinook Salmon Adrienne Roumasset 82-11 | Use of Eelgrass Habitats in Puget Sound Large River Deltas by Forage Fish and Juvenile Salmon Stephen P. Rubin 69-11 | Environmental Correlates to Black Rockfish Growth in California and Alaska Vanessa R. von Biela 72-11 |
| 11:15 AM | Conservation Engineering Research in U.S. West Coast Groundfish Fisheries W. Waldo Wakefield 95-12 | An Approach to Estimating the Effects of High Temperature Exposure During Maternal Upstream Migration on Embryo Development and Survival in Chinook Ryan Mann 82-12 | The Role of an Intermittently Closed, Northern California Estuary for the Feeding Ecology of Juvenile Steelhead Erin Seghesio 69-12 | Modeling the Effects of Climate on Individual Growth Variability of Marine Fish: A Bayesian Hierarchical Approach Thomas Helser 72-12 |
| 11:30 AM | Bluefin Tuna Bycatch Mitigation Research in the Gulf of Mexico Yellowfin Tuna Pelagic Longline Fishery Daniel Foster 95-13 | Upper Thermal Limits to Migration in Adult Chinook Salmon: Evidence from the Klamath River Basin Joshua Strange 82-13 | | Use of Climate-Growth Relationships of Bering Sea Yellowfin Sole to Improve Stock Assessments Thomas Wilderbuer 72-13 |
| 11:45 AM | Effects of Two Alternative TED Designs on Catch Performance in the Summer Flounder Trawl Fishery Joseph T. DeAlteris 95-14 | Adult Pacific Salmonids in Hot Water: Behavior and Survival Studies from the Columbia River Basin Matthew Keefer 82-14 | | Variable Growth in South-Eastern Australian Fish Species: Evidence and Implications for Stock Assessment Athol Whitten 72-14 |

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| WEDNESDAY, SEP. 7 | <u>Fun With Fish - Innovative Education and Outreach Programs</u> | <u>Contributed Papers - Microchemistry of Calcified Structures</u> | <u>Contributed Papers - Sampling, Tagging, Tracking, and Recording Methods, Part 1</u> | <u>Investigating the World of Lamprey Biology and Ecology</u> |
| Moderator | Dan Spencer | Steven Schroder | Mary Buckman | Bianca Streif |
| 8:00 AM | Keynote: The Evolution of Aquatic Education's Role In Fisheries Conservation Tom Lang 81-1 | Understanding Juvenile River Herring Movements with Otolith Microchemistry Sara M. Turner 70-1 | Addressing Challenges in Defining Fishing Communities Using Quantitative Models Amber Himes-Cornell 79-1 | Migratory and Feeding Types in Lampreys Margaret F. Docker 90-1 |
| 8:15 AM | Salmon Fest: Partnership Power! Corky Broaddus 81-2 | Detecting Anadromy in Bull Trout by Non-Lethal Sampling Methods Lance A. Campbell 70-2 | Advances in Fish Sampling: an Overview of Techniques and Standardization Scott A. Bonar 79-2 | Conservation of Native Lampreys Worldwide Claude B. Renaud 90-2 |
| 8:30 AM | Balancing Your Aquatic Resources Education Program Cindy Etgen 81-3 | Spatial Differences in Gulf of Mexico Red Snapper Otolith Microchemistry Michelle Zapp Sluis 70-3 | Accuracy of Removal Electrofishing Estimates of Trout Abundance in Streams Kevin Meyer 79-4 | Habitat Preferences of Larval Lamprey, Application of an European Directive Aimed to Conservation Pedro R. Almeida 90-3 |
| 8:45 AM | Great Lakes Education: A Vessel-Based Education Fostering Fisheries Stewardship Terry Gibb 81-4 | River Herring Nursery Habitat Use in Albemarle Sound, NC: Inferred Using Otolith Microchemistry Daniel H. Zapf 70-4 | A Comparison of Snorkel Surveys and Mark-Recapture Density Estimations with Application in Hawaiian Streams Ernie F. Hain 79-5 | Feeding by Parasitic Lampreys: Trends and Variability Philip Cochran 90-4 |
| 9:00 AM | Using History to Promote the Value of Utah Lake and Endangered Species Recovery Efforts Michael D. Mills 81-5 | Otolith Chemistry Reveals Complex Life History Patterns and Facultative Anadromy in Alaska Dolly Varden Morgan H. Bond 70-5 | Use of a Floating Weir to Assess Salmonids in the Elwha River Prior to Dam Removal Kent C. Mayer 79-6 | Endocrine Control of Lamprey Reproduction Stacia Sower 90-5 |
| 9:15 AM | An Analysis of 8 Years of Angling Outreach in New York City: What Has Worked and What Hasn't Melissa K. Cohen 81-6 | Elevated Otolith Sr:Ca Ratios in the African Longfinned Eel Yu-Jia Lin 70-6 | How Should Fishery Scientists Calculate Diet Proportions by Weight? A Simulation Study Evaluating Two Common Methods Erik Schoen 79-7 | The Spawning Migration of Lamprey Paul S. Kemp 90-6 |
| 9:30 AM | Speed Presentations: How the Pacific Region Fisheries Program Connects People with Nature and Engages the Next Generation of Conservation Professionals Sean Connolly 81-7 Getting Kids Outdoors, Connected, and Engaged in Nature David A. Cannamela 81-8 | Impacts of Multiple Scales of Variation in Atlantic Menhaden Otolith Chemistry Jason J. Schaffler 70-7 | The Statistical Estimation of Tuna Consumption Rates Using Coupled Bioenergetics and Mercury Mass Balance Models Bridget E. Ferriss 79-8 | Lamprey Passage Mary Moser 90-7 |
| WEDNESDAY AM BREAK | | | | |
| Moderator | Tom Lang | Steven Schroder | Mary Buckman | Bianca Streif |
| 10:15 AM | Bringing Current Research to the Public at Informal Science Institutions: Portal to the Public at Pacific Science Center Dana Vukajlovich 81-9 | Selecting the Best Variables from Otolith Tracers to Maximize Classification for Linear Datasets Stacy K. Beharry 70-8 | "Plundering Hook-Nosed Sea Pigs": Accounting for Seal Depredation in Analyses of Catch Data Owen C. Nichols 79-9 | Reproductive Ecology of Lampreys Nicholas S. Johnson 90-8 |
| 10:30 AM | Tennessee's Aquatic Outreach Efforts David Rizzuto 81-10 | Cost-Benefit Analysis of Combining Genetic Markers and Otolith Chemistry to Track the Fate of Hatchery-Reared Fish R. Deborah Overath 70-9 | The Effectiveness of Cooperative Research Projects Linda Lombardi 79-10 | Artificial Propagation of Pacific lampreys: Panacea or Problem? Matthew G. Mesa 90-9 |
| 10:45 AM | Aquatic Education Strategies of the Alaska Department of Fish and Game, Division of Sport Fish Jay Baumer 81-11 | Otolith Diaries: Isotopic Trails Tell Ecological Tales of a River Diversion or Overfishing? Kirsten Rowell 70-10 | Comparison of Fishers' Logbooks to Observer Data Loraine Hale 79-11 | A Spatially-Explicit Size-Structured Model for Identifying Areas of High Larval Sea Lamprey Density in a Large River Jason Robinson 90-10 |
| 11:00 AM | Efficacy of Summer Camps for Enhancing Conservation Literacy Leslie Burger 81-13 | Basin-Specific Rates of Incorporation of Bomb-Produced ¹⁴ C in Fish Otoliths: an Example from the North Pacific Ocean Craig R. Kestelle 70-11 | eLog Technology for the Commercial Fishing Industry: Is it Working and What Can be Learned from Experience? Amos Barkai 79-12 | Occupancy, Detection, and Habitat Use of Larval Pacific Lamprey and <i>Lampetra</i> sp. in Large River Habitats Jeffrey C. Jolley 90-11 |
| 11:15 AM | Seattle Aquarium's Citizen Science Program: Karen Matsumoto 81-16 | A False-Positive for Anadromy in Dolly Varden Otoliths in Alaska Reveals Likely Diet Effect of Pacific Salmon Subsidy Troy Jaecks 70-12 | Isnapper: Design, Testing, and Analysis of a Smartphone-Based Application As an Electronic Logbook in the for-Hire Fisheries Matthew Johnson 79-13 | Integrating Lamprey Conservation Into Salmonid-Based Restoration Planning: A Case Study from the Methow River John Crandall 90-12 |
| 11:30 AM | Speed Presentations: Partnerships with Trout Unlimited: Collaborative Ways to Create the Next Generation of Conservationists Rochelle Gaudour 81-15 Scientist-Educator Partnerships in Formal and Informal Education Lisa Hiruki-Raring 81-17 | Vagrancy of Hatchery-Stocked Steelhead Trout in Lake Erie Christopher T. Boehler 70-13 | Validation of Self-Reported Logbooks Using Electronic Monitoring Technology: A Case Study Involving 6 South Atlantic Snapper Grouper Commercial Bandit Fishing Vessels from NC to GA M. Scott Baker Jr. 79-14 | Pacific Lamprey (<i>Entosphenus tridentatus</i>), Stream Temperatures, and Their Relevance in Determining Stream Habitat Restoration Targets Stan J. van de Wetering 90-13 |
| 11:45 AM | Panel Discussion | | Flexible Methods for Rapid Mapping of Marine and Estuarine Habitats and Fish Presence Using Towed Underwater Video Leyla Arsan , 79-15 | USFWS Pacific Lamprey Conservation Initiative –Consideration of Climate Change Impacts for Restoration Planning Christina Luzier 90-14 |

| Room | Washington State Convention Center - 607 | Washington State Convention Center - 608 | Washington State Convention Center - 609 | Washington State Convention Center - 611 |
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| WEDNESDAY, SEP. 7 | Management of Elasmobranch Fisheries: Sustainability, Conservation, and Regulation of Global Trade | Riverscape Ecology: Theory and Application for Understanding and Conserving Lotic Fishes | Improving Survey Methods for Monitoring Recreational Fishing Effort and Catch | High Head Reservoirs - A Black Box? What Do We Know about Fish Growth, Behavior, Distribution, Survival, and Passage Timing in These Reservoirs |
| Moderator | Andrea Dell'Apa | Kurt Fausch | Jon Helge Volstad | Greg Taylor |
| 8:00 AM | Using Acoustic Telemetry Data to Define the Efficacy of Spatial Management for Coastal Sharks in the Great Barrier Reef Marine Park Danielle Knip 74-1 | Regional-, Landscape-, and Reach-Scale Models for Implementing Riverscape Approaches with Salmonids in the Pacific Northwest, USA Daniel Isaak 93-1 | The Alaska Sportfishing Survey: A Mail Survey of Participation, Effort, Catch and Harvest Gretchen B. Jennings 88-1 | Migration of Curimba at Volta Grande and Igarapava Reservoirs, Grande River, Brazil Luiz G. M. Silva 71-1 |
| 8:15 AM | Impacts of Cownose Rays (<i>Rhinoptera bonasus</i>) to northern Gulf of Mexico Shellfish Resources: An Integrated Approach Matthew Ajemian 74-2 | Riverscape Approach to Assess Fish and Habitat Relationships Prior to Dam Removal Samuel J. Brenkman 93-2 | Applications of a Phone-Diary Method for Recreational Fishing Surveys and Developments in Data Analysis Jeremy Lyle 88-2 | Water Velocity Affects Juvenile Chinook Migration Rate Ken Tiffan 71-2 |
| 8:30 AM | Elasmobranch Conservation: Focus on the United States and Europe Sonja Fordham 74-3 | Tributaries as a Key for Great River Fish Conservation Brenda M. Pracheil 93-3 | The Use of Telephone-Diary Surveys for Assessing Seabass Recreational Fishing: Outputs from a French Experience Harold Levrel 88-3 | Application of Genetic Pedigree to Inform on Habitat Use in Re-Establishing Stocks Above High Head Reservoirs Michael Banks 71-3 |
| 8:45 AM | Inferences on Ecosystem Impacts of Bycatch Removals Vincent Gallucci 74-4 | Putting India's Large-Scale Interbasin Water Transfer Project in Fish Terms Evan H. Campbell Grant 93-4 | Evaluation of Methods of Increasing Response for an Angler Survey in Two States J. Michael Brick 88-4 | Hydroacoustic Evaluation of Juvenile Salmonid Passage at Lookout Point Dam Fenton Khan 71-4 |
| 9:00 AM | Shark Fisheries CAN be Sustainably Managed (sort of... maybe) Steven Campana 74-5 | A Landscape Ecology Model Explaining the Variability in Size of Salmon Runs Across Appalachian Watersheds Michel Lapointe 93-5 | Nonresponse Weighting Adjustment in a Telephone Survey of Recreational Fishing Activity William R. Andrews 88-5 | Hydroacoustic Evaluation of Juvenile Salmonid Behavior at Cougar Dam, 2010 Ida Royer 71-5 |
| 9:15 AM | Multi-Scale Investigation of the Factors Affecting the Distribution of Sharks in the Gulf of Mexico Marcus Drymon 74-6 | The Relative Influence of Ecological Processes in Predicting Steelhead Spawning Distribution Across a Complex Riverscape Jeffrey Falke 93-6 | Comparing Adjustment Methods for Nonresponse in a List Based Telephone Survey of Marine Anglers John Foster 88-6 | Life History Characteristics of Juvenile Spring Chinook Salmon in Cougar Reservoir Fred Monzyk 71-6 |
| 9:30 AM | What Do We Know about the Migratory Pathways of Spiny Dogfish in the NW Atlantic Roger A. Rulifson 74-7 | Trophic Dynamics in the Riverscape: Unifying Food Web and Ecosystem Approaches to Measure the Strength of Species Interactions in Habitats Linked by Fish Movement Colden V. Baxter 93-7 | The Effects of Length of Recall on Reports of Fishing Effort Nancy Mathiowetz 88-7 | Juvenile Chinook Salmon Movements in Cougar Reservoir, Oregon John Beeman 71-7 |
| WEDNESDAY AM BREAK | | | | |
| Moderator | Andrea Dell'Apa | Colden Baxter | Jeremy Lyle | Greg Taylor |
| 10:15 AM | Diet Variation and Predatory Impact of Spiny Dogfish (<i>Squalus acanthias</i>) in North Carolina Waters Charles Bangley 74-8 | Fire, Fish and Food Webs Michael P. Beakes 93-8 | Applications of Digital Video Recording in the Estimation of Ocean Recreational Fishing Effort off Oregon Eric D. Schindler 88-8 | The First Chinook and Steelhead Smolt Migration in the Upper Deschutes Basin, Oregon in Fifty Years Megan Hill 71-8 |
| 10:30 AM | Research and Management Activities for Both Coastal and Pelagic Sharks Conducted by Fishery Research Agency in Japan Yasuko Semba 74-9 | Theory and Implications of Habitat Size Influences on Stream Food Webs Angus R. McIntosh 93-9 | From Rhetoric to Reality – Delivering an Integrated Catch Estimation System with Correlation and Calibration for New Zealand Amateur Fisheries Martin Cryer 88-9 | Life History Variation of Spring Chinook Salmon in the Willamette Valley Samuel Bourret 71-9 |
| 10:45 AM | Global Trends in Shark Catches and the State of the Resource John A. Musick 74-10 | Riverine 'Fish-Dominated' Food Webs along an Urban to Rural Gradient Mazeika SP Sullivan 93-10 | Monitoring Recreational Fisheries in a Mediterranean Island Beatriz Morales-Nin 88-10 | Round Butte Dam Selective Water Withdrawal James Bartlett 71-10 |
| 11:00 AM | Faunal Composition and Diversity of Elasmobranchs in the Gulf of California Joseph J. Bizzarro 74-11 | Ecological and Genetic Impacts of Introduced Salmonids on Native Fishes in Riverscapes: Implications Under a Warming Climate Clint C. Muhlfeld 93-11 | Catch and Effort Estimation of Marine Recreational Fisheries in Germany Harry Vincent Strehlow 88-11 | Surface Collector Hydraulics Dennis Dorratcague 71-11 |
| 11:15 AM | Are Marine Protected Areas Better Than Size Limits for Halting the Decline of the North Sea Thornback Ray <i>Raja Clavata</i> ? Nicholas K. Dulvy 74-12 | Spatially Explicit Modeling of Fish Population Persistence in Australian Dryland Rivers Nick Bond 93-12 | Using Recall Surveys to Estimate Harvest of Cod, Eel and Sea Migrating Brown Trout in Danish Angling and Recreational Passive Gear Fishing Claus Reedtz Sparrevohn 88-12 | Development of a Deepwater Reservoir Passage System for Juvenile Salmonids at the Baker River Hydroelectric Project Nick Verretto 71-12 |
| 11:30 AM | Preliminary Results from an Age-Structured Simulation Model of Pacific Sleeper Shark Population Dynamics in the North Pacific Ocean Dean Courtney 74-14 | Speed Presentations: Spatial Structure in the Spawning and Distribution Patterns of Snake River Finespotted Cutthroat Trout Kristen M. Homel 93-13 Mountain Whitefish and Trout: Factors Influencing Ecological Patterns James Starr 93-14 | Detection and Correction of Pseudoreplication in Recreational Fishing Surveys Aldo Steffe 88-13 | Salmonid Fry Stranding Mortality Associated with Daily Water Level Fluctuations in Trail Bridge Reservoir Ethan Bell 71-13 |
| 11:45 AM | Save the Bay, Eat a Ray and a Purported Trophic Cascade Mediated by Declines in Populations of Large Sharks R. Dean Grubbs 74-15 | Speed Presentations: Detection of Multi-Scale Salmonid Thermal Refugia from Airborne Thermal Infrared (TIR) Imagery Stephen Dugdale 93-15 Modeling the Riverscape Ecology of Fish Invasions Across an Artificial Irrigation Network Darragh J. Woodford 93-16 | Improved Estimation Methods for the Access Point Angler Intercept Survey in the United States F. Jay Breidt 88-14 | Assessment of Crappie Population Demographics in Three Midwestern Reservoirs Candice M. Miller 71-14 |

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|---------------------------|--|---|---|--|
| WEDNESDAY, SEP. 7 | <u>Contributed Papers - Invasive Species</u> | <u>Contributed Papers - Freshwater Fish and Ecology, Part 1</u> | <u>Contributed Papers - Genetics</u> | <u>What Influences Fisheries Production? Effects of Environmental, Fishing, and Food Web Forcing Across Large Marine Ecosystems</u> |
| Moderator | Joseph Benjamin | Jesse E. Filbrun | Sarah M. Collins | Sarah K. Gaichas |
| 8:00 AM | Using the Judas Technique to Locate and Remove Invasive Common Carp Przemyslaw G. Bajer 73-1 | Stream Nutrients and Biotic Assemblages in Maryland Streams Raymond P. Morgan II 76-1 | Population Genetics of Sablefish in the Gulf of Alaska and Bering Sea Using Microsatellites W. Tyler McCraney 77-1 | Assembly Rules for Aggregate-Species Production Models: Simulations in Support of Management Strategy Evaluation Sarah K. Gaichas 68-1 |
| 8:15 AM | Trophic Ecology and Potential Effects of Invading Asian Carp in Missouri River Tributaries Cari-Ann Hayer 73-2 | Fish Distribution in a Deep, Glacially Originated, Ultraoligotrophic Lake of Patagonia-Argentina Luciana M. Barone 76-2 | Elastic Coho: Phenotypic Response to Size-Selective Fisheries Curtis M. Knudsen 77-2 | A Surplus Production Model Database Incorporating Biomass, Catch and Environmental Data: Construction and Projects Robert J. Gamble 68-2 |
| 8:30 AM | Identifying Recruitment Sources of Asian Carps in the Illinois River Gregory W. Whitlege 73-3 | Identification and Collecting of Gammarus Species of the Geshlagh River in Kurdistan, Iran Mansoureh Gholami 76-3 | Mitochondrial DNA Diversity Gradient Among North Pacific Populations of Red King Crab Wei Cheng 77-3 | Multivariate Empirical Contrasts Across 11 Northern Hemisphere Ecosystems Caihong Fu 68-3 |
| 8:45 AM | Experimental Assessment of Risk for Breach of Electric Barriers on the Chicago Sanitary and Ship Canal by Invasive Asian Carp Mike Holliman 73-4 | Evaluating Largemouth Bass Stocks Following a Golden Algae Kill on the Salt River Reservoirs Andrea Sylvia 76-4 | Ecological and Genetic Impacts of Hatchery Steelhead on Listed Fish Populations in a Tributary to the Lower Clackamas River Maureen Kavanagh 77-4 | Single Species Production Models Kirstin Holsman 68-4 |
| 9:00 AM | Age-Specific Demography of Silver Carp: Implications for Management and Control Joseph E. Gerken 73-5 | Habitat and Fish Community Response to Sand Dredging in a Large Great Plains River Jason L. Fischer 76-5 | Broad-Scale Genetic and Compositional Monitoring of Fish Populations: a Proof of Concept in Two Large River Basins Michael K. Young 77-5 | Comparison of Surplus Production Estimates with and without Environmental and Ecological Co-Variates: Patterns for Functionally Aggregated Groups Across 11 Large Marine Northern Hemisphere Ecosystems Sean M. Lucey 68-5 |
| 9:15 AM | Aspects of the Early Life History of Bighead and Silver Carps Pertaining to Spawning River Requirements Duane Chapman 73-6 | Plastic Responses to Altered Selection Regimes in Larval Lake Sturgeon Kari Dammerman 76-6 | A Genetic Linkage Map for Cutthroat-Rainbow Trout Hybrids: the Scaffold for Genomic Studies in Introgressed Populations Carl O. Ostberg 77-6 | Common Patterns, Common Drivers: Comparative Analysis of System-Level Aggregate Surplus Production Across Northern Hemisphere Ecosystems Franz J. Mueter 68-6 |
| 9:30 AM | Role of the Invasive Bloody Red Shrimp <i>Hemimysis anomala</i> in the Nearshore Foodweb of Lake Ontario Maureen Walsh 73-7 | The Role of Resource Subsidies in Ecosystems: Lessons from Artificial Feeding in Fish Ponds Jesse E. Filbrun 76-7 | Population Genetic Structure of the Gaudalupe Bass <i>Micropterus treculii</i> Preston T. Bean 77-7 | Multispecies Production Model Results William Stockhausen 68-7 |
| WEDNESDAY AM BREAK | | | | <u>Contributed Papers - Environmental, Fishing, and Food Web Effects on Fish Production</u> |
| Moderator | Joseph Benjamin | Jesse E. Filbrun | Sarah M. Collins | William Stockhausen |
| 10:15 AM | Habitat Use Among Native and Invasive Snails in a West Texas Spring Jeff L. Bradstreet 73-8 | Nahuel Huapi, Lake Fish Community Evaluation Project: an Ongoing Case History Study for the Patagonian Andean Range of Argentina Pablo H. Vigliano 76-8 | Genetic and Microchemical Analysis of Population Structure in a Migratory Neotropical Fish Sarah M. Collins 77-8 | Reef Shark Declines: Consequences for the Trophic Structure of Communities of Coral Reef Fishes Jonathan L.W. Ruppert 97-1 |
| 10:30 AM | Whole Ecosystem Effects of Removing Invasive Rusty Crayfish from a North Temperate Lake Gretchen A. Hansen 73-9 | Longitudinal Shifts in Fish Assemblage Structure Along a Non-Wadeable Iowa River Timothy Parks 76-9 | System Analysis of Introgressive Hybridization Among Trout Patrick Della Croce 77-9 | Trophic Structure and Temporal Trends in Diets of the Demersal Fish Community of Chesapeake Bay Andre Buchheister 97-2 |
| 10:45 AM | Invasive European Bird Cherry Affects Terrestrially-Derived Prey Abundance for Juvenile Coho Salmon David Roon 73-10 | Distribution and Habitat Associations of Topeka Shiners in West-Central Iowa Bryan Bakevich 76-10 | Genetic Stock Identification of Snake River Steelhead at Lower Granite Dam, 2008-2011 Michael W. Ackerman 77-10 | Food Availability Shapes Recruitment and Survival in a Population of Marine Fish Daniel K. Okamoto 97-3 |
| 11:00 AM | Movement Behavior of Adult Brown Bullhead in Its Non-Native European Range of Distribution - the Elbe River in the Czech Republic Jiri Musil Jr. 73-11 | Fish Community and Habitat Relationships in the Buffalo National River and Ozark National Scenic Riverways Hope R. Dodd 76-11 | Identifying Spatial Structure Using Multiple Data Sources Eric Ward 77-11 | Oceanographic Effects on Rockfish Growth and Productivity in the California Current Sabrina Beyer 97-4 |
| 11:15 AM | Crowded Food Webs: The Impact of Novel Competitors and Predators on the Growth Rates of Endemic Desert Fishes Timothy E. Walsworth 73-12 | The Effect of River Thermal Regime on Early Life Stage Success in White Sturgeon James A. Crossman 76-12 | Seascape Genetics and Geo-Visualization in Support of Fisheries Management and the European Common Fisheries Policy J. T. Martinsohn 77-12 | Linking Otoliths and Oceanography: Environment-Growth Relationships for Early Life History Stages of Rockfishes off Central California Kathryn E. Crane 97-5 |
| 11:30 AM | Predation Refuge Mediates Multiple Predator Effects on a Non-Native Fish Jeffrey E. Hill 73-13 | Diel Migration Great Lakes Fish Communities: Linkages, Habitat Coupling, and Ecosystem Function Owen T. Gorman 76-13 | Distribution and Abundance of Nearshore Larval Fishes in Central California with Special Emphasis on Rockfish Chris Ehrler 77-13 | Growing in the Flow: Development of Recruitment Indices for Rockfishes Eric P. Bjorkstedt 97-6 |
| 11:45 AM | Winning the Invasion Roulette: Fish Farms Facilitate Establishment of Non-native Rainbow Trout Carlos Garcia de Leaniz 73-14 | Patterns of Endemism and Species Richness in Fishes of the Western Gulf Slope Timothy H. Bonner 76-14 | Ground-Truthing Effective Population Size Estimators: Using Long-Term Population Data from Inland Salmonid Populations Ryan Hill 77-14 | |

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| WEDNESDAY, SEP. 7 | <u>Advances in Data Management and Dissemination: The View from the Edge of a New Frontier</u> | <u>Incorporating Estimates of Survival, Biological Diversity and Spatial Distribution into Salmonid Life-Cycle Models</u> | <u>Global Conservation, Trophic Relationships and Ecology of Forage Fish in Marine Ecosystems</u> | <u>New Frontiers in the Management, Status, and Biology of Western Native Freshwater Fishes</u> | <u>Contributed Papers - Habitat Restoration and Enhancement</u> |
| Moderator | Kathryn Thomas | Phil Roni | John Piatt | Scott Bonar | Mark Gard |
| 8:00 AM | When Public Data Becomes Public Data, and Why We Can't Hold It Anymore T. Douglas Beard Jr. 80-1 | Symposium Introduction: Salmonid Life-Cycle Models and Survival Estimates Philip Roni 89-1 | Global Management of Forage Fish: Advice from the Lenfest Forage Fish Task Force (Keynote) Ellen K. Pikitch 86-1 | Update on the Western Native Fishes Database Leanne Roulson 91-1 | Identification of Critical Habitat for Endangered Fishes in Southern Ontario Shawn Staton 78-1 |
| 8:15 AM | Data Sharing - Good Public Policy John Witzig 80-2 | Overview of Salmon Life-History-Based Modeling Eric Knudsen 89-2 | | Spreading the Risk: Native Trout Management in a Warmer and More Uncertain Future Jack E. Williams 91-2 | Restoring Large Wood Transport in the Green River, King County, Washington Tyler H. Patterson 78-2 |
| 8:30 AM | The Realized and Unrealized Fears of Providing Data Online Stan Allen 80-3 | Life-Cycle Modeling of Salmon Populations - Translating Restoration Actions into Population Viability Metrics Rich W. Zabel 89-3 | Assessing Conservative Take Limits for Marine Forage Fishes Selina Heppell 86-2 | Gila Trout Recovery in Arizona Jason Kline 91-3 | The Success of Vegetation Enclosures in Enhancing Habitat for Fish and Invertebrates Matthew J. Diana 78-3 |
| 8:45 AM | Why the Feds Aren't Evil for Wanting Your Data Andrea C. Ostroff 80-4 | Multi-Stock Life Cycle Modeling of Salmonids Robert B. Lessard 89-4 | Identifying the Forage Fish Requirements of Marine Bird and Mammal Predators in An "Ecosystem Approach to Fisheries" John Piatt 86-3 | Apache and Gila Trout Recovery Challenges: What Has Changed Since 1973? Julie Meka Carter 91-4 | Collaborative Riparian Restoration on the Lower Cedar River Cyndy Holtz 78-4 |
| 9:00 AM | Information Discovery & Sharing in the Cloud Michael Daconta 80-5 | Winter OBAN: A Bayesian Life-Cycle Model of Winter-Run Chinook Noble Hendrix 89-5 | What Predator Behavioral Models Can Tell Us about Managing Southern Ocean Krill Fisheries Marc Mangel 86-4 | Environmental Factors and Spawning Behavior in the Devils Hole Pupfish Ambre L. Chaudoin 91-5 | Expedited Environmental Compliance for Fish Passage: Gold Ray Dam Removal Matthew Hutchinson 78-5 |
| 9:15 AM | Water Quality Data Exchange Louis Sweeny 80-6 | Dynamics of Endangered Southern Upland Atlantic Salmon Populations A. Jamie F. Gibson 89-6 | Conservation of Forage Fish in the California Current: an Ecosystem Assessment Julie A. Thayer 86-5 | Devils Hole Pupfish Population Dynamics Maria C. Dzul 91-6 | Removal of Creosote Piles to Restore Estuarine Shoreline Habitat Don E. Weitkamp 78-6 |
| 9:30 AM | The National Nonindigenous Aquatic Species Database and Alert System Pam Fuller 80-7 | Survival Estimates and Population Dynamics Models of Scottish Atlantic Salmon Philip J. Bacon 89-7 | Global Contributions of Forage Fish to World Fisheries and Ecosystems Konstantine J. Rountos 86-6 | Food Bottlenecks to Larval Recruitment of Devils Hole Pupfish Justin A. Mapula 91-7 | The Use of Juvenile Chinook Salmon Otoliths Related to Restoration Efforts on the Nisqually River Angie Lind-Null 78-7 |
| WEDNESDAY AM BREAK | | | | | |
| Moderator | Brion Cook | John Ferguson | Dayv Lowry | Scott Bonar | Mark Gard |
| 10:15 AM | Regional Data Sharing: Data Warehouses and Early Steps Toward Regional Systems Bruce Schmidt 80-8 | Environmental Controls on Salmonid In-Redd Survival Iain Malcolm 89-8 | Influence of Forage Fish Ecology in Delimiting Marine Biological Hotspots Gail Davoren 86-7 | Historical Modifications to Fish Assemblages in West-Central Mexico Norman Mercado-Silva 91-8 | Assessing Feasibility and Benefits of Gravel Augmentation in a Dammed Southern Oregon River Ian S. Reid 78-8 |
| 10:30 AM | Coordinated Assessments for Columbia River Salmon Tom K. Iverson 80-9 | Empirical Estimates of Egg-to-Fry Survival in Yakima River Spring Chinook Salmon Christopher Johnson 89-9 | Factors Influencing the Abundance, Distribution and Availability of Forage Fish to Predators in Nearshore Marine Ecosystems Mayumi Arimitsu 86-8 | Developing Conservation Priorities for Native Fish in the Lower Colorado River Basin Joanna Whittier 91-9 | Recruitment Trends of Atlantic Sturgeon in the Altamaha River, Georgia: Are We on the Road to Recovery? Douglas L. Peterson 78-9 |
| 10:45 AM | Fish Management Data Wars: The Stream-Cred Henry Franzoni 80-10 | Estimating Salmon Egg Survival Carolyn Meyer 89-10 | Seabird Diet in the Salish Sea and Northern California Current Scott Pearson 86-9 | Humpback Chub Management in the Grand Canyon Bill Stewart 91-10 | An Evaluation of Fish Assemblage Response to Restored Habitat Connectivity in a Large, Regulated River Brian F. Henning 78-10 |
| 11:00 AM | Idaho Fish and Wildlife Information System Bart Butterfield 80-11 | Estimating Overwinter and Smolt to Adult Survival for Coho Salmon in Olympic Peninsula Streams: Evidence of Multiple Life History Strategies for Juvenile and Adult Coho Todd Bennett 89-11 | Linking Pinniped Foraging Ecology to Ephemeral and Seasonal Aggregations of Forage Fish Jamie N. Womble 86-10 | Site Occupancy Assessment of an Experimental Flow Regime on the Endangered Humpback Chub (<i>Gila cypha</i>) in the Colorado River, Grand Canyon, AZ Brandon Gerig 91-11 | Rediscovering Penobscot River American Shad: Establishing Baselines Prior to Restoration Ann B. Grote 78-11 |
| 11:15 AM | Tracking Salmon Recovery in Oregon: a Website to Deliver Statewide Data for the Oregon Department of Fish and Wildlife Julie Firman 80-12 | Estimating Atlantic Salmon Survival in Estuaries and Bays of Maine John F. Kocik 89-12 | Top-Down Control of Pacific Herring by Predators in Lynn Canal, Southeast Alaska Kevin M. Boswell 86-11 | Post-Stocking Survival and Movement of Telemetered Bonytail <i>Gila elegans</i> in a Lower Colorado River Reservoir, Lake Havasu, Arizona and California Christine Adelsberger 91-12 | Lower Columbia Geomorphology Jeffrey Parsons 78-12 |
| 11:30 AM | The Champ Data System Steve Rentmeester 80-13 | Monitoring Multiple Life Stages of Coho Salmon to Analyze Freshwater Production and Marine Survival Erik Suring 89-13 | The Role of Food for Overwintering Juvenile Eulachon (<i>Thaleichthys pacificus</i>) JJ Vollenweider 86-12 | Low Diversity of High Quality Food Items May Amplify the Potential for Competition Between Native and Non-Native Fishes in a Large Regulated River Kevin C. Donner 91-13 | Monitoring for Results, Five Years After Large Wood Placement in a Cascade Mountain River Elizabeth Ablow 78-13 |
| 11:45 AM | Managing Scientific Data for Listed Salmonids and Seafood Safety Brendan Sylvander 80-14 | Estimating Ocean Survival of Columbia River Salmon John Ferguson 89-14 | Conceptual Model of Energy Allocation in Walleye Pollock from Larvae to Age-1 Elizabeth C. Siddon 86-13 | Leatherside Chub <i>Lepidomedea copei</i> : New Data on Life History and Conservation Aquaculture Techniques Eric Wagner 91-14 | Longitudinal Connectivity and Remedial Measures in a Swedish River Larry Greenberg 78-14 |

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| WEDNESDAY, SEP. 7 | <u>Catch Share Programs in U.S. Commercial Fisheries</u> | <u>Reflections on Forest Management: Can Fish and Fiber Coexist?, Part 2</u> | <u>Adaptability of Fish Life Histories</u> | <u>Using Acoustic Telemetry Techniques to Estimate Fish Survival and Behavior</u> |
| Moderator | Michael Pentony | Bob Danehy | Jeff Hutchings; Anna Kuparinen | Patrick Nealon; Tracy Steig; J. Jeffery Isely |
| 1:15 PM | Fisheries Catch Share Programs - the Canadian Experience Gordon Gislason 84-15 | The Elephant in the Room: New Growth Riparian Management in Southeast Alaska M. D. Bryant 92-15 | Evolutionary Effects of Selective Fishing for Pacific Salmon Thomas Quinn 85-14 | Four Years of Acoustic Telemetry Studies of Juvenile Salmonid Passage and Survival Improvements at John Day Dam, Columbia River Mark Weiland 96-15 |
| 1:30 PM | Comparison of Cooperative Structures Joseph Sullivan 84-16 | Where the Water Hits the Road – Forestry BMP Monitoring and Assessment in Maine K. G. Kanoti 92-16 | The Relative Importance of Spawning Stock Biomass and Environmental Conditions in Determining Recruitment in Marine Fishes: a Meta-Analysis Ray Hilborn 85-15 | Adjusting Fish Survival Estimates to Account for Premature Transmitter Failure Chris Holbrook 96-16 |
| 1:45 PM | Community Elements in North Pacific Catch Share Plans Michael Downs 84-17 | Riparian Buffers Under Natural Disturbance Emulation for Forestry D. P. Kreuzweiser 92-17 | Salmonid Life History Variation and Its Implications for Fisheries Marc Mangel 85-16 | Behavior of American Shad, Alabama Shad, and Blueback Herring in Response to a Simple Attraction Flow within a Navigation Lock J. Jeffery Isely 96-17 |
| 2:00 PM | Role of Permit Banks in Catch Shares Michael Pentony 84-18 | Long-Term Trends in Fish Habitat and Effectiveness of Buffer Strips in Southeast Alaska Douglas Martin 92-18 | From Saltwater to Freshwater: Intraspecific Differences in Population Structure and Morphology in Threespine Sticklebacks Annette Taugbol 85-17 | Seasonal Migration Patterns of Sub-Adult Striped Bass and Some Factors That May Trigger Movement Through the San Francisco Estuary Cynthia LeDoux-Bloom 96-18 |
| 2:15 PM | Sector Outreach: Grassroots to High-Tech Melissa Vasquez 84-19 | The Idaho Forestry Program: Providing Opportunities for Forest Management While Meeting Riparian Conservation Objectives Mark Tepy 92-19 | Variability in the Abundance of Fish Stocks on the Continental Shelf of the Northwest Atlantic Ocean Brian Rothschild 85-18 | Fish mobility and habitat use in a large regulated fast flowing river (France) using a fine scale acoustic tracking. Julien Bergé 96-19 |
| 2:30 PM | NMFS Catch Share Policy/Comparison of Elements Mark Holliday 84-20 | Evaluating the Effectiveness of Riparian Management Practices in British Columbia P. J. Tschaplinski 92-20 | Extreme Variability in the Production of Pacific Salmon and Herring in the Strait of Georgia in 2007 and 2008 Richard Beamish 85-19 | Use of Fixed and Mobile Acoustic Telemetry Systems to Understand Fish Responses to Habitat Variability in a Large River (Rhône, France) Hervé Capra 96-20 |
| 2:45 PM | Overview of Implementing Catch Shares from a General Reporting Standpoint Gregory Power 84-21 | Ten Year Review of Implementation and Effectiveness of Plum Creek Timber Company Native Fish Habitat Conservation Plan in Western Montana Brian D. Sugden 92-21 | Increased Variability in Fish Populations Steven X. Cadrin 85-20 | Behavior and Fine Scale Habitat Usage Patterns of Juvenile Green Sturgeon in the Sacramento-San Joaquin Delta Matt Peterson 96-21 |
| WEDNESDAY PM BREAK | | | | |
| Moderator | Richard VanHoosen | C. A. Dolloff | Doug Vaughan | Patrick Nealon; Tracy Steig; J. Jeffery Isely |
| 3:30 PM | Northeast Groundfish Catch Share Data Imputation J. Michael Lanning 84-22 | Resilience and the Rates of Recovery of Small Streams Along a Gradient of Riparian Management Intensity John Richardson 92-22 | Predator Diets in Lake Huron, 2009-2010 Edward F. Roseman 85-21 | Fish Movement Behaviour in Dryland Riverscapes: Acoustic Tagging to Identify Response to Flow Jonathan C. Marshall 96-22 |
| 3:45 PM | Discard Estimation Methodology Used for Northeast Groundfish Catch Share Monitoring Daniel Caless 84-23 | Using Reference Conditions to Identify Thinning Regimes Needed to Accelerate the Development of Late-Successional Characteristics in Young Douglas-Fir Dominated Forests Michael Pollock 92-23 | Effects of Environmental Changes on Adriatic Small Pelagic Stocks Piera Carpi 85-22 | Telemetry Monitoring to Determine Adfluvial Migration and Thermal Refugia Use in a Reservoir by Native Salmonids Paul Grutter 96-23 |
| 4:00 PM | Quality Assurance Metrics in Catch Share Data Management Richard Van Hoosen 84-24 | Forest Thinning in Pacific Northwest Riparian Areas: Rationale, Risks, and Policy Calibration C. A. Frissell 92-24 | Can Rising Variance Predict Sudden Shifts in Populations and Ecosystems? A Test Using Alaskan Crustacean Data Franz J. Mueter 85-23 | Movements of brook trout inhabiting a restored coastal stream Andy J. Danylchuk 96-24 |
| 4:15 PM | Monitoring Systems in Catch Share Management Stanley Wang 84-25 | Establishing a Reserve for a Threatened Salmonid in a Working Forest in Japan Peter S. Rand 92-25 | An Evaluation of the Variability of Groundfish Populations off the Coast of Alaska Anne Hollowed 85-24 | A Bioenergetics Approach to Assessing Steelhead Use of Thermal Refugia in the Klamath River, CA Kim Brewitt 96-25 |
| 4:30 PM | The Impacts of Catch Share Management on Fishing Patterns and Productivity of New Hampshire Groundfish Vessels Joshua Wiersma 84-26 | Forest Service Research Supporting Fish and Fiber in a Changing Climate Katherine Smith 92-26 | Panel Discussion | Multistate Modeling Approach for Analyzing Survival and Movement of RFID PIT Tagged Trout in Rivers Eric R. Fetherman 96-26 |
| 4:45 PM | Initial Efforts to Understand Social Changes in the West Coast Groundfish Trawl Fishery Due to a New Catch Shares Management Program Suzanne M. Russell 84-27 | Ecological Reality and Social Expectations Gordon Reeves 92-27 | | Estimating Fishing and Natural Mortality of Spotted Seatrout in North Carolina Using Conventional and Telemetry Tagging Timothy A. Ellis 96-27 |
| 5:00 PM | CSP Symposium Wrap-up Ray Hilborn 84-28 | Forestry and Fisheries Through the End of the Century Robert E. Bilby 92-28 | | Rapid Assessment of Reach Scale Movement and Habitat Associations of Juvenile Steelhead Using Portable PIT-Tag Antennas and Low Cost Geographic Positioning System Reid Camp 96-28 |

| Room | The Conference Center - 305 | Washington State Convention Center - 3A | Washington State Convention Center - 3B | Washington State Convention Center - 401 |
|---------------------------|---|--|---|---|
| WEDNESDAY, SEP. 7 | <u>Potential Effects of Ocean Acidification on Fisheries and Other Marine Resources</u> | <u>Global Fisheries: Balancing Overfishing and Food Production</u> | <u>Conservation Genetics and Genomics in Fisheries, Part 1</u> | <u>Stocking Conservation Issues: Integrative Methods in Recreational Fisheries: Science and Policy of Fish Propagation, Part 1</u> |
| Moderator | Paul McElhany | Shijie Zhou | Daniel Gomez-Uchida | Eric Hallerman |
| 1:15 PM | Predicting Coral Reef Responses to Ocean Acidification Anne Cohen 75-14 | Cooperative Management Initiatives in the NZ Deepwater Crab Fishery Mark Soboll 87-24 | Association Mapping of the Run-Timing Trait Using Admixture Linkage Disequilibrium in Chinook Salmon Jon E. Hess 83-14 | The Repercussions of Illegal Stocking by Anglers Brett Johnson 94-15 |
| 1:30 PM | Hot Sour Soup: Rising Temperatures, Ocean Acidification, and Coral Reefs C. Mark Eakin 75-15 | Overfishing and the RFMOs: Are They Part of the Solution or Part of the Problem? Linda Paul 87-14 | Analysis of Close Kin Relationships as a Fishery Independent Approach to Estimate Spawning Stock Biomass in Southern Bluefin Tuna Peter Grewe 83-15 | Ecological Considerations in Muskellunge Introductions – Exploring Effects on Resident Fish Populations Corey S. DeBoom 94-16 |
| 1:45 PM | Effect of Ocean Acidification on Behavior Danielle Dixon 75-16 | Identifying Conservation Leverage Points in a Fishery System Facing Practical Constraints on the Scale of Management Ashleen J. Benson 87-15 | Adaptation and the Covariance Among SNPs and Population Differentiation in Puget Sound Chinook Kenneth I. Warheit 83-16 | Smallmouth Bass in the Pacific Northwest: A Threat to Native Species, a Benefit for Anglers Michael P. Carey 94-17 |
| 2:00 PM | Responses of Early Life Stages of Walleye Pollock to Projected Levels of Ocean Acidification Tom P. Hurst 75-17 | An Assessment of Spatial Dynamics of Stock Structure for Three Gulf of Maine Groundfish Species Alia W. Al-Humaidhi 87-16 | Genomics of Thermal Adaptation in Redband Trout Shawn R. Narum 83-17 | Florida Largemouth Bass Stocking in Texas Allen Forshage 94-18 |
| 2:15 PM | Potential Impacts of Ocean Acidification on Harvest and Other Ecosystems Services in Puget Sound Shallin Busch 75-18 | Annual Catch Limits in the Northeast Pacific Jane DiCosimo 87-17 | Genomic Analysis of Parallel Evolution of Chinook Salmon (<i>Oncorhynchus tshawytscha</i>) In the Columbia River Basin Marine S.O. Briec 83-18 | Imperiled Finfish and Mussel Restoration in the Upper Tennessee River System Eric Hallerman 94-19 |
| 2:30 PM | Exploring Acidification Effects with a Coupled Biogeochemical and Size Spectra Model Will LeQuene 75-19 | How Fishery Stock Responses Affect Management models Robert Day 87-18 | Effects of Fishery-Induced Sex Bias on Selection in a Wild Alaskan Sockeye Salmon Population Lorenz Hauser 83-19 | Evaluation of Largemouth Bass and Red Drum Stock Enhancement Michael D. Tringali 94-20 |
| 2:45 PM | | Using Simulation Models to Investigate Impacts of P*-Based Control Rules on Stocks of Differing Life History Strategies Emily Susko 87-19 | Genome Screens Identify Chromosomal Regions Under Divergent Selection in Steelhead/Rainbow Trout Devon Pearse 83-20 | Temporal Trends in Hatchery Releases of California Central Valley Fall-Run Chinook Salmon Eric Huber 94-21 |
| WEDNESDAY PM BREAK | <u>Contributed Papers - Toxicology, Part 1</u> | | | |
| Moderator | Yushun Chen | Eric Knudsen | Morten Limborg | Eric Hallerman; Laura Hoberecht |
| 3:30 PM | Survival of Goldfish and Golden Shiner in Different pH Yushun Chen 105-1 | Evaluation of Various Biological Reference Points for Management of Atlantic Menhaden Alexei Sharov 87-20 | Conservation Genomics and Adaptive Divergence of Atlantic Salmon in HD Vincent Bourret 83-21 | Captive Propagation and Restocking of Yellowcheek Darter Steve E. Lochmann 94-22 |
| 3:45 PM | Selenium Bioaccumulation and Developmental Impacts Among West Virginia Fishes Ben Lowman 105-2 | The Marine Stewardship Council's Impact on Fisheries Jim Humphreys 87-21 | Association Genetics of Migration and Residency in Rainbow and Steelhead Trout Krista M. Nichols 83-22 | United States Aquaculture: Current Status and the Precautionary Principle Paul Olin 94-23 |
| 4:00 PM | An Assessment of Mercury in Economically Important Fishes Commonly Landed off the Coast of North Carolina Sally Petre 105-3 | The Role of the Media in Overfishing Jennifer Jacquet 87-22 | Genomics of Hybridization in Westslope Cutthroat Trout Gordon Luikart 83-23 | The Implications of NOAA's Aquaculture Policy: Where We Go from Here Michael Rubino 94-24 |
| 4:15 PM | Hypoxia's Impact on Fish Distributions and Population Estimates Troy Farmer 105-4 | The Communion of Our Commons Barton Seaver 87-23 | Genetic Basis for Invasive Colonization in Sticklebacks Jun Kitano 83-24 | Federal & State Coordination on Sustainable Aquaculture Development in CA Diane Windham 94-25 |
| 4:30 PM | Modeling Invertebrate Community Resistance and Resilience to Assess Indirect Impacts of Pesticides on Endangered Pacific Salmon Julann A. Spromberg 105-5 | Sushi and Sustainable Fisheries: A Restaurateur's Perspective Bun Lai 87-25 | Genome Wide Association Mapping of Quantitative Genetic Variation in a Pedigreed Wild Population of Coho Salmon Kerry A. Naish 83-25 | Shellfish Restoration Aquaculture Betsy Peabody 94-26 |
| 4:45 PM | Contaminant Fingerprints in Chinook Salmon Reflect Their Marine Distribution Sandra O'Neill 105-6 | | Genomic Insights into the Health and Condition of Out-Migrating Salmon Smolts Kristi Miller 83-26 | Towards a Marine Agronomy John Forster 94-27 |
| 5:00 PM | | Panel discussion | | |

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| WEDNESDAY, SEP. 7 | <u>The Cutting Edge of Bycatch Management: Science, Policy and Engineering, Part 2</u> | <u>Climate Change and Pacific Salmonids , Part 1</u> | <u>Can Aquatic Resources Survive Global Climate Change and Humanity's Best Intentions?, Part 1</u> | <u>Contributed Papers - Marine and Estuarine Fishes, Part 2</u> |
| Moderator | Pingguo He | Brian Burke, James Byrne | Alec Maule | Mark G. Pedersen |
| 1:15 PM | Evaluation of the Catch Performance of a Topless Trawl in the Summer Flounder Trawl Fishery Christopher J. Parkins 95-15 | Effects of River Temperature on Stock- and Sex-Specific Survival of Adult Migrating Fraser River Sockeye Salmon Eduardo Martins 82-15 | The Moral Imperative to Address Climate Change (Keynote) Kathleen Dean Moore 100-1 | Description of the Larvae of the Feather Blenny from New York Waters Paul A. Moccio 99-1 |
| 1:30 PM | Evaluating Turtle Excluder Devices with Reduced Bar Spacing for Bycatch Dominy Hataway 95-16 | Survival and Movement of Adult Spring/ Summer Chinook Salmon Through the Columbia River Estuary and Lower River Michelle Rub 82-16 | | Estimating Overwinter Mortality of Age-0 Pacific Herring Based on Loss of Energy and Implications for Recruitment Thomas C. Kline Jr. 99-2 |
| 1:45 PM | Can Similar Gear Modifications Used for Sea Turtle Bycatch Reduce Bycatch of At-Risk Turtles in Inland Fisheries? Sarah M. Larocque 95-17 | Adult Salmon Bioenergetics in the Columbia River Hydrosystem David Geist 82-17 | Transboundary Regional Climate Adaptation Consortium Melissa Kenney 100-2 | Taxonomic Discrimination Between Larval Herring (<i>Alosa pseudoharengus</i> and <i>A. aestivalis</i>): Is It Feasible? Nathan Henderson 99-3 |
| 2:00 PM | Behavioral Interactions Between Flatfish and Commercial Fishing Gear on the Newfoundland Grand Bank Melanie J. Underwood 95-18 | Holding and Pre-Spawning Behavior of Adult Spring Chinook Salmon in the Upper Yakima River; Insights from Radio-Telemetry Steve Corbett 82-18 | Responding to Evolving Stakeholder Needs for 21st Century Hydrologic Scenarios: an Overview of the Columbia Basin Climate Change Scenarios Project Alan F. Hamlet 100-3 | Early Life Ecology of Dolphinfishes in the Northern Gulf of Mexico Larissa L. Kitchens 99-4 |
| 2:15 PM | Improving Trawl Selectivity in the Pacific Hake Fishery Mark J.M. Lomeli 95-19 | Egg Consumption in Mature Pacific Salmon: Consequences for Energetic Models and Fitness in Changing Environments Bryan Neff 82-19 | Envisioning Future Climate in the Northwest Philip W. Mote 100-4 | Distribution of Juvenile Spotted Seatrout and Red Drum Along Sandy Beach Habitats in Pamlico River, North Carolina Joey Powers 99-5 |
| 2:30 PM | Solving Seabird Bycatch in Alaskan Demersal Longline Fisheries Ed Melvin 95-20 | Modeling Migratory Energetics of Connecticut River American Shad Theodore Castro-Santos 82-20 | August Stream Discharge Trends Portend Impacts of Climate Change in the Northern Rockies Jason C. Leppi 100-5 | Evaluating Early Life History of River Herring in the Chowan River, NC Anne E. Dowling 99-6 |
| 2:45 PM | Overview of North Pacific Salmon Bycatch Management Measures Diana Stram 95-21 | Bioenergetically-Optimal Migration Dates in Spring/Summer Chinook & Climate Change-Induced Selection Lisa Crozier 82-21 | A Millennium of Snowpack Variability and Change in the North American Cordillera Gregory Pederson 100-6 | Habitat Use by Larval Fishes in Shoreline Waters of the Hudson River Claire E. Stouthamer 99-7 |
| WEDNESDAY PM BREAK | | | | |
| Moderator | Becca Robbins Gisclair | Masahide Kaeriyama, Doug Beard | Stephen Waste | Mark G. Pedersen |
| 3:30 PM | Stock Composition Analysis of Salmon Bycatch Samples from the Bering Sea Aleutian Island Pollock Trawl Fishery Jeffrey R. Guyon 95-22 | Linking High and Variable Ocean Temperature Exposure to Coastal Migration Behavior and Bioenergetics During Homeward Migration of Adult Sockeye Salmon S. Matthew Drenner 82-22 | Future PNW Region Climate Scenarios and Their Impacts on Aquatic Habitats in Historical Context Nate Mantua 100-7 | A Comparison of Resident Fish Communities in Managed and Unmanaged Coastal Wetlands in North and South Carolina, USA Kelly F. Robinson 99-8 |
| 3:45 PM | Eastern Bering Sea Chum Salmon Distribution and Bycatch Ed Farley Jr. 95-23 | Route Selection and Movement of Returning California Central Valley Adult Chinook Salmon near Their Upper Thermal Limit Cyril J. Michel 82-23 | Regional Climate Simulations for North America Steve Hostettler 100-8 | Reef Fish Demographics on Artificial Reefs: The Effects of Reef Size on Biomass and Spatial Distribution Kirsten A. Simonsen 99-9 |
| 4:00 PM | Eastern Bering Sea Shelf Oceanography: Important Processes, Inter-Annual Variability, and Ecosystem Linkages Seth Danielson 95-24 | Potential Impacts of Climate Warming on Aquatic Ecosystems in the Northern Rockies: Implications for Native Species Conservation Clint C. Muhlfeld 82-24 | Integrating Knowledge of Climate Variability and Change into the Resource Management Process Stephen T. Gray 100-9 | Predatory Consumption of Silver Hake <i>Merluccius bilinearis</i> in the Northwest Atlantic Larry A. Alade 99-10 |
| 4:15 PM | Salmon Bycatch Analysis and Management James Ianelli 95-25 | Hot on the Heels of Chinook Salmon: Climate Change and Smallmouth Bass Invasions in Salmon Rearing Habitat David J. Lawrence 82-25 | Climate Change: Assessing Vulnerability of Aquatic Ecosystems L. Benda 100-10 | Age and sex-specific sablefish movement James T. Murphy 99-11 |
| 4:30 PM | The Evolution and Integration of Approaches to Mitigate Chinook Salmon Bycatch in the Bering Sea Pollock Fishery Alan Haynie 95-26 | Winter Distribution and Trophic Status of Pacific Salmon in the North Pacific Ocean Under Changing Climate Shigehiko Urawa 82-26 | Changes in Run-Timing and Abundance of Threatened Eulachon in the Columbia River Richard Gustafson 100-11 | Integration and Simulation of Meta-Analysis Estimates of Steepness for West Coast Groundfish Stocks Motoki Wu 99-12 |
| 4:45 PM | Effects of Bycatch on Salmon Fisheries and Escapement Toshihide Hamazaki 95-27 | Global Warming Effect on Life History and Population Dynamics of Japanese Chum Salmon Masahide Kaeriyama 82-27 | Is Nautilus Being Overfished into Extinction? Peter Ward 100-12 | An Historical Comparison of Finfish Abundance and Community Composition in Chesapeake Bay Seagrass Beds Kathryn Sobocinski 99-13 |
| 5:00 PM | Finding Success in Excluding Salmon from Pollock Nets Carwyn Hammond 95-28 | Interdecadal and Centennial Variability in Pacific Salmon Abundance Over 500 Years Lauren Rogers 82-28 | Return of Harbor Porpoise to Puget Sound: Recent Increases in Abundance Brad Hanson 100-13 | Evaluating Thermal Impacts to an Estuarine Balanced Indigenous Community for 316a Demonstrations Brent Courchene 99-14 |

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| WEDNESDAY, SEP. 7 | <u>Fun With Fish - Innovative Education and Outreach Programs</u> | <u>Habitat Protection and Restoration Part 2</u> | <u>Contributed Papers- Sampling, Tagging, Tracking, and Recording Methods, Part 1</u> | <u>Investigating the World of Lamprey Biology and Ecology</u> |
| Moderator | Orlay Johnson | Susan-Marie Stedman | Mary Buckman | Mary Moser |
| 1:15 PM | Keynote: Learning Science in and Out of School Carrie Tzou 81-18 | The Economics of Habitat Protection Brad Gentner 102-1 | Mobile Mapping of the Endangered Pallid Sturgeon Kimberly A. Chojnacki 79-16 | Speciation in Eurasian Lampreys Yuji Yamazaki 90-15 |
| 1:30 PM | My Place in Puget Sound: An Ocean Science Curriculum that Empowers Youth to Action within Their Communities Carrie Tzou 81-19 | Market-Based Approaches to Aquatic Habitat Protection Dawn Browne 102-2 | Video Evidence of Flatfish Herding by NWFSC Survey Trawl Sweeps Keith L. Bosley 79-17 | Mechanisms for Evolutionary Stasis of the Genus <i>Lethenteron</i> in the Okhotsk Sea Basin (Pacific Ocean) Alexandr Kucheryavyy 90-16 |
| 1:45 PM | Citizen Science: A Great Partnership Roberta Ayres 81-20 | Multi-Benefit Approaches to Habitat Protection Mark P. Smith 102-3 | Image Analysis Techniques to Evaluate Effects of Nearshore Lake Development on Aquatic Macrophytes Marcus W. Beck 79-18 | Life History and Genetics of Lampreys in Alaska Trent M. Sutton 90-17 |
| 2:00 PM | Including Youth in Habitat Restoration Projects Laurel Devaney 81-21 | Habitat Protection Strategies and Actions Throughout the Historical Range of Eastern Brook Trout Douglas Stang 102-4 | Fisheries Application of Side Scan Sonar within the Yukon River, Alaska Heather Leba 79-19 | Using Molecular Markers to Discriminate Species and Populations: The Case of the European Brook and River Lampreys Catarina S. Mateus 90-18 |
| 2:15 PM | Growing a Program to Provide Environmental Outreach Opportunity at a National Fish Hatchery: The Importance of Volunteers and Friends Groups Scott Hamelberg 81-22 | The Stronghold Approach to Wild Salmon Conservation Mark Trenholm 102-5 | An Overview of Hydroacoustics Use within a State Agency Travis Neebling 79-20 | Identification of Putative Migratory Pheromones from Pacific Lamprey Dave Close 90-19 |
| 2:30 PM | Speed Presentations: From Ohio to the Gulf: High School Students Learn about Ground Fish Surveys Kim Lewis 81-23 Teach What You Know! NOAA Scientists Use Cutting-Edge Research to Inspire Teachers and Students Casey Raiston 81-24 | Protecting Forested Watersheds for Sustainable Fish Habitats Michael Duval 102-6 | Evaluating a New Video Metric for Enumerating Reef Fish in the Southeastern US Zeb Schobernd 79-21 | Prespawning Holding Behavior of Pacific Lampreys Steve Starcevich 90-20 |
| 2:45 PM | Speed Presentations: Data Collection Techniques in Aquatic Education: Getting Real Numbers Now and Stockpiling for Future Evaluation Tom Lang 81-25 6th Graders See the Value of Sea Turtle Research Dana Tomlinson 81-26 Gulf Oil Spill in the Classroom Melinda Storey 81-27 | Engaging Landowners for Stream Protection Christopher Vitello 102-7 | Use of High-Resolution Sonar to Quantify Attributes of Predation on Reef Fishes at Ecologically Relevant Time and Space Scales Victoria Price 79-22 | Migration Behavior and Habitat Use of Adult Pacific Lamprey from Two Rivers in Western Oregon, USA: Complex Behavior in Complex Systems Ben Clemens 90-21 |
| WEDNESDAY PM BREAK | | | | |
| Moderator | Gretchen Glaub | Susan-Marie Stedman | Mary Buckman | Mary Moser |
| 3:30 PM | A model to expand research with interns Bonita Nelson 81-28 | Protecting Habitat Through State Programs: NOAA's Coastal and Estuarine Land Conservation Program Elaine Vaudreuil 102-8 | Estimating Scallop Dredge Catch Efficiency Using HabCam, a Habitat Mapping Camera System Timothy J. Miller 79-23 | Twenty-Five Years of Monitoring Anadromous Sea Lamprey Spawning in the Fort River, MA: Abundance and Spawning Timing Boyd Kynard 90-22 |
| 3:45 PM | Mentoring the Next Generation of Conservation Professionals Sharon Ziegler-Chong 81-29 | Using Lakeshore Conservation Easements as a Cost Effective Method to Protect Fish Habitat John Ringle 102-9 | Accounting for Uncertainty in Acoustic Estimates in the Great Lakes Patrick J. Sullivan 79-24 | Barrier Removal in Sedgeunkedunk Stream: Sea Lamprey Recolonization and Resident Fish Community Dynamics Robert S. Hogg 90-23 |
| 4:00 PM | SoundCitizen: Students and Citizens Conducting Significant Science on the Chemical Links Between Urban Settings and Aquatic Systems Richard G. Keil 81-30 | The Wisconsin Lakeshore Restoration Project Patrick O. Goggin 102-10 | Target Strength of Atlantic Cod from Synchronized Split-Beam and Multibeam Echosounders Christopher W.D. Gurshin 79-25 | Identifying Food and Nutritional Resources Supporting Invasive Sea Lamprey Ammocoetes Using Isotopic Natural Abundances Thomas M. Evans 90-24 |
| 4:15 PM | Fishing, Science, and Fun: Successful Outreach Strategies at the Aquatic Visitors Center Tory A. Gabriel 81-31 | A Path for Urban Restoration—Assessment, Prioritization, Planning, and Implementation at the City of Issaquah, WA Kerry Ritland 102-11 | Deployment of DIDSON in the Lower Missouri River to Examine Sturgeon Behavior Aaron J. DeLonay 79-26 | Lamprey Larvae as Ecosystem Engineers in Streams Hokuto Shirakawa 90-25 |
| 4:30 PM | Sound & Source: Inquiry Based Field Research on the Waters and Watersheds of Puget Sound Nikken Palesch 81-32 | A Tale of Two Streams Jeanne Hanson 102-12 | Estimating the Abundance and Distribution of Green Sturgeon Using a DIDSON Acoustic Camera Ethan Mora 79-27 | Pacific Lamprey Exposed to Contaminants: A) Effects of Contaminated Sediment on Larval Growth and Development, and B) Impacts of Herbicides in Adult Lamprey April Lindeman 90-26 |
| 4:45 PM | The Pineywoods of Texas - Sea Camp's New Programs and New Partners William Dailey 81-33 | The Right Project Is a Moving Target: Lessons from Trinity River Restoration Brandt Gutermuth 102-13 | | The Influence of Available Benthic Habitat Type on Predation Risk in Larval Least Brook Lamprey Dustin M. Smith 90-27 |
| 5:00 PM | Teachers Fish for DNA Markers and Reel in High School Students Michele Wolski 81-34 | Group Discussion Christopher Estes | | |

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| WEDNESDAY, SEP. 7 | <u>Management of Elasmobranch Fisheries: Sustainability, Conservation, and Regulation of Global Trade</u> | <u>Riverscape Ecology: Theory and Application for Understanding and Conserving Lotic Fishes</u> | <u>Improving Survey Methods for Monitoring Recreational Fishing Effort and Catch</u> | <u>Fish Passage Through Turbines: What Do We Know and Where Are We Going</u> |
| Moderator | Lyndell Bade | Christian Torgersen | Maggie Sommer | Stephen V. Amaral |
| 1:15 PM | Detection of Interspecies Hybridisation Between Australian (<i>Carcharhinus tilstoni</i>) and Common Blacktip Shark (<i>C. limbatus</i>): Implications for the Australian Fishery Jennifer R. Ovenden 74-16 | Chemical Barriers and Deflation of Fish Metacommunities in Mined Riverscapes J. Todd Petty 93-17 | New Design and Estimation Approach for U.S. Access Point Angler Intercept Survey: Pilot Study Results Jean Opsomer 88-15 | Progress in Developing New Hydropower Turbines Michael J. Sale 98-1 |
| 1:30 PM | Challenges in the Conservation and Management of Shark Caught in Fisheries Colin Simpfendorfer 74-17 | Brook Trout Population Dynamics Benjamin Letcher 93-18 | Improving Catch Estimates from a Large Regional Boat Ramp Survey in Western Australia: Objectivity and Transparency in Choice Analytical Methods Norm Hall 88-16 | Computational Fluid Dynamics Framework for Turbine Biological Performance Assessment Marshall Richmond 98-2 |
| 1:45 PM | Trinational Management of Gulf of Mexico Shark Fisheries Robert E. Hueter 74-18 | Linking Individual Fish Movement to the Demographics and Genetics of Populations James H. Roberts 93-19 | Use of Respondent-Driven Sampling in Recreational Fisheries Shane Griffiths 88-17 | Evaluation of Fish Injury Mechanisms During Exposure to Turbulent Shear Flow Zhiqun (Daniel) Deng 98-3 |
| 2:00 PM | Improving Data Inputs to Stock Assessments Ivy Baremore 74-19 | Riverscape Heterogeneity and Homing Behavior of Spawning Spring Chinook Salmon at Multiple Scales Jeremy M. Cram 93-20 | Improving the Validity, Reliability and Affordability of Recreational Fishery Surveys. Y.W. Cheng 88-18 | The Effects of Leading Edge Blade Thickness, Strike Velocity, and Fish Orientation on Turbine Passage Survival Stephen V. Amaral 98-4 |
| 2:15 PM | Evaluating the Impacts of Uncertainty on the Estimation of Biological Reference Points for the Shortfin Mako Shark Wen-Pei Tsai 74-20 | Mapping the Unknown: Modeling Future Scenarios of Riverine Fish Communities Joe Ebersole 93-21 | Combining a Diary and On-Site Survey to Estimate Total Landings and Release of Cod in Norway's Marine Angling Tourism. Keno Ferter 88-19 | An Evaluation of the Accumulated Damages to Downstream Migrating Salmon Smolts and Silver Eels While Passing a Chain of Hydro Power Stations Uli Dumont 98-5 |
| 2:30 PM | Panel Discussion | Operationalizing the Riverscape Concept Using Bayesian Hierarchical Models: A Fish Case Study Ben Stewart-Koster 93-22 | A Statewide Survey of Recreational Boat Fishing in Western Australia - How to Survey 20,700 Km of Coast Brent Wise 88-20 | Passage of Mandi-Amarelo Through a Kaplan Turbine at Igarapava Dam, Brazil Luiz G. M. Silva 98-6 |
| 2:45 PM | | A Habitat-based Life Cycle Model for Oregon Coastal Coho Mark Meleason 93-23 | Collection and Validation of Catch and Effort Data from For-Hire Fisheries Beverly Sauls 88-21 | Alden Turbine Development and Application Jasson Foust 98-7 |
| WEDNESDAY PM BREAK | <u>Contributed Papers - Freshwater Fish and Ecology, Part 2</u> | | | <u>Fish Passage Monitoring - Build It and They Will Come: Measuring Success of Fish Passage Enhancements</u> |
| Moderator | Pete Bisson | Kurt Fausch | Claus Reedt Sparrevohn | Dan Domina |
| 3:30 PM | Reproductive Ecology of Two Sympatric Cyprinids in the Rio Grande Basin, Texas Sarah McMillan 104-1 | Connecting Land Cover Changes to Streams Raymond K. Timm 93-24 | Pilot Study: Implementation of Electronic Logbooks on Headboats Operating in the U.S. South Atlantic Kenneth J. Brennan 88-22 | Lock and Dam 3 Fish Passage Options Scott F. Stuewe 106-1 |
| 3:45 PM | Demographic Properties of Largemouth Bass in the Chesapeake Bay Watershed Joseph Love 104-2 | Effects of Land Use on Fish Assemblages of San Francisco Bay Streams: a Spatial Analysis Approach Kristina Cervantes-Yoshida 93-25 | Hawaii Charter Fishing Surveys/Monitoring and Fishermen Reports Hongguang Ma 88-23 | Effectiveness of Fish Screens to Reduce Entrainment of Threatened Salmonids into Irrigation Systems on the Lemhi River, Idaho Chuck Warren 106-2 |
| 4:00 PM | Recent Distributional Expansion of Florida Largemouth Bass in Japan Tadao Kitagawa 104-3 | Implications of Land-Cover Change History for Monitoring Ecological Condition in Developing Areas of Rural King County Gino Lucchetti 93-26 | Evaluating Impacts of Mark-Selective Chinook Salmon Fisheries in Puget Sound, Washington Laurie Peterson 88-24 | Monitoring a Vertical Slot Fish Ladder at Baguari Dam, Doce River, Brazil Luiz G. M. Silva 106-3 |
| 4:15 PM | Evaluation of a Low-Cost Smallmouth Bass Population Estimate and Angler Use and Harvest Study on the West Branch Susquehanna River, Pennsylvania Jason Detar 104-4 | Climate, Landscape, Disturbance, and Biotic Factors Associated with the Distribution of Yellowstone Cutthroat Trout Robert Al-Chokhachy 93-27 | Finding the Unreported Recreational Catch in the Norwegian Lobster (<i>Homarus gammarus</i>) Fishery Alf Ring Kleiven 88-25 | Fish Passage at Marble Bluff Fish Facility, Nixon, Nevada Tim Loux 106-4 |
| 4:30 PM | Ontogenetic Prey Preferences of Pallid Sturgeon Tobias Rapp 104-5 | An Evaluation of Relationships Between the Fish Community and Environmental Characteristics of the White River, Arkansas Nicole E. Vogt 93-28 | An Adaptive Sampling Design for Estimation of Thresher Shark Catch/Effort in a California Recreational Fishery Aneesh S. Hariharan 88-26 | Building a Fishway for Lake Sturgeon: Successful Testing of a Prototype Fishway in Northern Wisconsin Nicholas J. Utrup 106-5 |
| 4:45 PM | Influences of Urban Light Pollution on Stream-Riparian Invertebrate Food Webs Lars A. Meyer 104-6 | Human Influence on Species Richness and Community Structure in Mediterranean Biome Freshwater River Basins Elif Fehm-Sullivan 93-29 | Video Assessment of Recreational Discards Chris Bradshaw 88-27 | A Positive Barrier Fish Guidance System Designed to Improve Safe Downstream Passage of Juvenile Anadromous Fish Shane Scott 106-6 |
| 5:00 PM | Fish as Food: What River Otter Presence Can Tell Us About Aquatic Communities in Michigan Kiira J. Siitari 104-7 | The Influence of Riparian Forest Characteristics on Terrestrial Invertebrate Input and Brook Trout Diet in Headwater Streams Paul D. Damkot 93-30 | The Angling Mortality Syndrome in Marine Sedentary Fish Miquel Palmer 88-28 | Gatewell Exclusion Screen Evaluation at the Priest Rapids Hydroelectric Project in 2010 Curtis Dotson 106-7 |

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| WEDNESDAY, SEP. 7 | <u>Contributed Papers - Invasive Species</u> | <u>Contributed Papers - Freshwater Fish and Ecology, Part 1</u> | <u>Contributed Papers - Genetics</u> | <u>Ecology and Evolutionary Biology of Gobies in North America</u> |
| Moderator | Angela Strecker | Chris Millard | Andrew Whiteley | W. Tyler McCraney |
| 1:15 PM | Phylogenetic Patterns of Fish Community Assembly in the American Southwest Angela Strecker 73-15 | Comparing Fish Communities Among Different Wetland Types within the Huron-Erie River Corridor Justin Chiotti 76-15 | Local Adaptation in Hood Canal Steelhead? Genetic Variability in Reaction Norms for Early Life History Traits Between Two Populations Katy Doctor 77-15 | Physiological Genomics of Stress Responses in Longjaw Mudsuckers Andrew Gracey 101-1 |
| 1:30 PM | Application of the Fish Invasiveness Scoring Kit (FISK) to Peninsular Florida Larry L. Lawson Jr. 73-16 | Lat. Variation in Juvenile Pallid Sturgeon Physiology Hilary A. Meyer 76-16 | Mitogenome Sequencing Reveals Shallow Evolutionary Histories of Ecological Divergent European Whitefish (<i>Coregonus</i> spp.) Ludovic Orlando 77-16 | From Small to Large: What Small-Scale Experiments on Tropical Gobies Tell Us About Large-Scale Population Dynamics Mark Steele 101-2 |
| 1:45 PM | Predictors of White Perch Population Size Structure and Density: What Drives Population Dynamics of Invasive Fish? Bethany Galster 73-17 | Individual and Environmental Factors Influencing Survival for Exploited Populations of Northern Pikeminnow in the Columbia and Snake Rivers Peter McHugh 76-17 | Sampling Strategies for Brook Trout Effective Population Size Andrew Whiteley 77-17 | Does Early Post-Settlement Survival of the Temperate Blackeye Goby Depend on Larval Traits? Heidi Block 101-3 |
| 2:00 PM | Cultural Eutrophication Potentiates the Ecological Consequences of Fish Invasion and Invader Diversity Quenton M. Tuckett 73-18 | Lake Sturgeon Summer Habitat Use in the Erie Canal System Errol J. Scheid 76-18 | Genetic Evaluation of Spring Catch-and-Immediate Release Largemouth Bass Fishing Regulations Jan-Michael Hesseuauer 77-18 | Phylogenetic Relationships of North Pacific Estuarine Gobies and Elevated Endemism in the Gulf of California Ryan Ellingson 101-4 |
| 2:15 PM | Individual and Synergistic Effects of Introduced Species on a Reservoir Food Web: an Ecosystem Modeling Approach Marybeth K. Brey 73-19 | Seasonal Differences in the Diversity and Relative Abundance of Fishes in a Small Midwestern Stream Robert E. Colombo 76-19 | QTL Mapping of Inbreeding Depression in the Pacific Oyster: Implications for Larval Mortality Louis Plough 77-19 | An Interdisciplinary Approach to Studying Incipient Speciation: The Role of Seaways in the Phylogeography of the American Shadow Goby Greer Dolby 101-5 |
| 2:30 PM | Trophic Ecology of Native and Introduced Fish from Nahuel Huapi Lake, Patagonia, Argentina Romina Juncos 73-20 | Impacts of Golden Alga on Fish Populations in Reservoirs of the Upper Colorado River and Brazos River Basins, Texas Matthew VanLandeghem 76-20 | Validation of Gender Specific Markers in Plasma and Surface Mucus of Moronids and It's Utility for Broodstock Evaluation Nicholas A. Barkowski 77-20 | Bay Gobies – Conservation Genetics and Conflicts in the Restoration of California Estuaries David K. Jacobs 101-6 |
| 2:45 PM | | Mass Redistribution of Pelagic Lake Fish Under High Winds: A Freshwater Equivalent of Ocean Fronts Derrick T. de Kerckhove 76-21 | Genetic Structuring of Brook Trout Populations in the Connecticut River Basin Paul Schueller 77-21 | |
| WEDNESDAY PM BREAK | <u>Contributed Papers - Eels</u> | | | |
| Moderator | Michael J. Miller | Chris Millard | Andrew Whiteley | Andrew Kinziger |
| 3:30 PM | Estimating and Comparison of Turbine Passage Survival of European Eels at Two Hydro-Power Stations on the Rhine River Eric De Oliveira 103-1 | Classifying Large Reservoirs Using Fish Habitat Rebecca M. Krogman 76-22 | Microhabitat Population Structure within a Mummichog Hybrid Zone Jessica L. McKenzie 77-22 | Behavioral Ecology and Conservation of the Sex-Role Reversed Tidewater Goby Ramona O. Swenson 101-7 |
| 3:45 PM | Tracking Migration Routes of Stocked European Eels in the Baltic Sea Enno Prigge 103-2 | Two Connectivity Metrics and Their Relation with Fish Species Richness and Composition in Southern Brazilian Coastal Lakes Fernando G. Becker 76-23 | Genetic Population Structure of the Recently Validated Billfish, the Round-scale Spearfish, and Its Genetic Diversity and Demographic History Compared to Its Istiophorid Congener, the White Marlin Andrea M. Bernard 77-23 | Fluctuations and Recolonization of Tidewater Goby Populations in Coastal Southern California, 1975-2007 Camm C. Swift 101-8 |
| 4:00 PM | Size, Age, and Migration of Yellow-Phase American Eels in the Potomac River Drainage, Mid-Atlantic Region, USA Stuart A. Welsh 103-3 | Distribution, Abundance and Population Age Structure of Freshwater Mussels in the Mid Klamath Subbasin, CA Emily Davis 76-24 | Swordfish Population Structure in the Pacific Ocean Inferred by Nuclear DNA Data Scored Using High Res Ching-Ping Lu 77-24 | Rampant Drift in Artificially Fragmented Populations of the Endangered Tidewater Goby W. Tyler McCraney 101-9 |
| 4:15 PM | Why Did the Eel Cross the Creek: Understanding American Eel Behavior in an Estuarine Setting Marissa Brady 103-4 | Population Expansion and Diets of Deepwater Sculpin, a Rare Native Fish, in Lake Ontario Maureen Walsh 76-25 | mDNA & Sr:Ca Ratios from Archaeo-fish Bones Point to Pre-hydro Salmonid Species in the Klamath Basin Virginia L. Butler 77-25 | Life History Variation, Genetic Diversity and Extinction Risk in Tidewater Goby Michael Hellmair 101-10 |
| 4:30 PM | Potential Causes of Habitat Shifts of Anguillid Eels Related to Individual Growth and Intra-specific Interactions Kazuki Yokouchi 103-5 | Reproductive Phenology of Fishes of the Middle Rio Grande, New Mexico Trevor J. Krabbenhoft 76-26 | What You Don't Know Can Hurt You: Bias in Genotyping Uncertainty Sewall F. Young 77-26 | Munching on Invasives: New Zealand Mudsnails in the Diet of the Federally Endangered Tidewater Goby Libby Tonning 101-11 |
| 4:45 PM | Offshore Spawning Migrations of Anguillid and Conger Eels Michael J. Miller 103-6 | Alternative Scenarios for Prairie Lake Communities: an Uncertain Future Elizabeth Starks 76-27 | | Comparative Analysis of Genetic Diversities Among Invasive Populations of Four Gobies in Estuaries of California and Australia Raymond R. Wilson Jr. 101-12 |
| 5:00 PM | | An Evaluation of Taxonomic Data Quality in Fish Community Assessments Christopher J. Millard 76-28 | | Invasion Genetics of the Eurasian Round Goby: Spatial and Temporal Patterns Across North America Carol A. Stepien 101-13 |

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| WEDNESDAY, SEP. 7 | <u>Advances in Data Management and Dissemination: The View from the Edge of a New Frontier</u> | <u>Incorporating Estimates of Survival, Biological Diversity and Spatial Distribution into Salmonid Life-Cycle Models</u> | <u>Global Conservation, Trophic Relationships and Ecology of Forage Fish in Marine Ecosystems</u> | <u>New Frontiers in the Management, Status, and Biology of Western Native Freshwater Fishes</u> | <u>Contributed Papers - Habitat Restoration and Enhancement</u> |
| Moderator | Jihong Dai | Jack Williams | Mayumi Arimitsu | Roger Tabor | Mark Gard |
| 1:15 PM | Geospatial Data Collection - Standard Policy for Fisheries Denise Kelsey 80-15 | Environmental Determinants of Residency or Anadromy in O. Mykiss: a Life-Cycle Simulation Approach Steve Cramer 89-15 | Trends in Abundance and Composition of Forage Fish Across Puget Sound: A 30-Year Comparison Correigh Greene 86-14 | Small Founding Number and Low Genetic Diversity in an Introduced Species Exhibiting Limited Invasion Success Andrew Kinziger 91-15 | Initial Response of Fish Assemblage to Restoration Efforts in West Tennessee Bradley A. Ray 78-15 |
| 1:30 PM | Not Another Spreadsheet: Project Tracking in cbfish.org Matt Deniston 80-16 | A Multi-State Capture-Recapture Modeling Strategy to Separate True Survival from Permanent Emigration for a PIT-Tagged Population of Stream Fish Gregg E. Horton 89-16 | Historic Sampling Effort and Near-shore Distribution of Pacific Sand Lance in the Salish Sea, WA James R. Selleck III 86-15 | Current Status of Two Endangered Suckers and Research Supporting Recovery Efforts David A. Hewitt 91-16 | Relocating Government Creek - Lessons from the Successful Re-Creation of a Salmon Stream and Estuary on Gravina Island, AK Brandon Jensen 78-16 |
| 1:45 PM | Keeping Track of Science: A Tool to Help You Document and Discuss Monitoring Protocols Jacque Schei 80-17 | Juvenile Coho Salmon Movement, Habitat Use and Survival in a Coastal Basin of Southern Oregon Adam Weybright 89-17 | Forage Fish in a Seasonally Hypoxic Fjord Sandra Parker-Stetter 86-16 | Ecology of the Klamath Large-scale Sucker, An Endemic Fish of the Upper Klamath Basin Craig M. Ellsworth 91-17 | Evaluating the Ecological Effects of the Penobscot River Restoration Project Rory Saunders 78-17 |
| 2:00 PM | The Salmon Monitoring Advisor: A Hierarchical Web Site to Help Design and Implement Salmon Monitoring Programs Jeff Rodgers 80-18 | Juvenile Abundance, Survival, and Diversity of Puget Sound Chinook Mara Zimmerman 89-18 | Sandlance burrow. Why there? Adam P. Summers 86-17 | Distribution of Endemic Slender Sculpin in Upper Klamath Lake, Oregon Relative to Habitat Variables Summer M. Burdick 91-18 | Population-Level and Behavioral Responses As Tools for Short-Term Effectiveness Monitoring of Instream Habitat Restoration Karl M. Polivka 78-18 |
| 2:15 PM | Data Documentation or Organizational Knowledge Ted Habermann 80-19 | Freshwater Survival and Developmental Timing of Summer Chum in Salmon Creek, Washington Josh Weinheimer 89-19 | Sub-Tidal Habitats of Pacific Sand Lance H. Gary Greene 86-18 | Distribution and Apparent Movement of Age-1 Lost River and Shortnose Sucker in Upper Klamath Lake, OR, in Response to Poor Water Quality Jared L. Botcher 91-19 | Restoration of Endemic Landlocked Atlantic Salmon in a Regulated River System in Norway and Sweden Jon Museth 78-19 |
| 2:30 PM | Find It, Know It, Use It: How Metadata Is Finally Making Our Day Jobs Easier Karen Sender 80-20 | Ecological Carrying Capacity and Spawner-Recruit Models: Are They Related? Toshihide Hamazaki 89-20 | In-Vivo Ovary Sampling: a New Tool for Predicting Spawn Readiness of Pacific Sand Lance A. Darcie Neff 86-19 | Modeling Transport of Larval Suckers Through A Restored Delta in Upper Klamath Lake, OR, Using Density-Based and Individual-Based Approaches Tamara Wood 91-20 | Fish and Angler Use of Instream Habitat Enhancement Structures in 'Restored' Stream Reaches Jordanna E. Black 78-20 |
| 2:45 PM | Real-Time Distributed Business Analytics - Making Data Accessible and Shareable Across Data Discipline: Fisheries One Stop Shop Tina Chang 80-21 | A Tool for Understanding Gene Flow and Connectivity in Riverscapes Erin Languth 89-21 | Surf Smelt Spawning Habitat Use Along Camano Island, Puget Sound, Washington Kirk Krueger 86-20 | Status, Distribution, and Movements of Warner Suckers in SE Oregon Paul Scheerer 91-21 | The Effects of Small Scale Riparian Disturbance on Fish Habitat and Food Sources in Forested Streams Jered Studinski 78-21 |
| WEDNESDAY PM BREAK | | | | | |
| Moderator | Kathryn Thomas | Correigh Greene | Caroline Gibson | Roger Tabor | Mark Gard |
| 3:30 PM | ACCSP: Data from Yesteryear and Yesterday Julie M. Defilippi 80-22 | Survival and Migration Dynamics of Juvenile Chinook Salmon in the Sacramento-San Joaquin River Delta Russell Perry 89-22 | Genetic Assessment of Surf Smelt Stock Structure in Puget Sound Dayv Lowry 86-21 | Genetic Variation in Oregon Chub Patrick DeHaan 91-22 | Effects of Large Woody Debris Addition on Wild Brook Trout and In-Stream Habitat in Western Maine Stephen M. Coghlan 78-22 |
| 3:45 PM | Increasing Timeliness of Commercial Landings Data David Gloeckner 80-23 | Estimating Coho Habitat Capacity in a Dynamic Landscape Mark Meleason 89-23 | Microsatellite Variation Distinguishes Outer-Coastal and Fjord Herring Populations in Southeast Alaska Sharon Wildes 86-22 | The Tye Fish Fauna and Evidence of an Endemic Redside Shiner on the Coast of Oregon Douglas F. Markle 91-23 | South Fork Skokomish Stream Corridor Rehabilitation Brian Bair 78-23 |
| 4:00 PM | Integrating Data Services for Tracking Individual Fish Quotas Jeff Cowen 80-24 | Simulation Analysis of Salmon Life History Diversity and Population Productivity and Abundance Greg Blair 89-24 | Body Size Patterns and Density-Dependent Habitat Selection in Age-0 Herring from Northern Puget Sound Jonathan Reum 86-23 | Effects of Land Use and Summer Hypoxia on Salish Sucker In BC and WA: An Endangered and Endemic Population Nate Lundgren 91-24 | Legacy Disturbances and Restoration Potential of Coastal Plain Streams Dean E. Fletcher 78-24 |
| 4:15 PM | Is 2.5 Million Data Points Enough? Lessons Learned from the Nature Conservancy's Northwest Atlantic Marine Ecoregional Assessment Jennifer Greene 80-25 | Relationships Between Landscape Characteristics, Coho Salmon, and Their Channel Habitat: Spatial Extent, Spatial Variability, and Modeling Species Occupancy Kara Anlauf 89-25 | Juvenile Herring Assessment in Prince William Sound Michele Buckhorn 86-24 | Conservation of White Sturgeon in the Lower Columbia River: 250 Million Years and Counting Tucker Jones 91-25 | Steelhead and Their Habitat in the John Day River Basin Matthew D. Archibald 78-25 |
| 4:30 PM | Finding the Zones of Least Conflict. Charting the Social, Biological, and Economic Factors in the Gulf of Maine for Marine Spatial Planning Kerry Lagueux 80-26 | Scale and Hierarchical Relationships When Incorporating Observed Data into Fish Models George Boxall 89-26 | Forage Fish Spawning Habitat Protection and Restoration- Case Studies from the San Juan Archipelago Tina Whitman 86-25 | A Genetic and Behavioral Analysis of the Cultus Pygmy Sculpin and Implications for its Conservation Patricia Woodruff 91-26 | Managing Uncertainty in Real-Time During the Removal of Gold Ray Dam Megan Hilgart 78-26 |
| 4:45 PM | Management of Data to Support Adaptive Management Analysis for ESA Listed Salmonids in the Upper Columbia River Basin James White 80-27 | Modeling the Response of Salmonid Carrying Capacity to Changes in the Prey Base Mark Teply 89-27 | Forage Fish Research Conducted Under the Gulf of Alaska Integrated Ecosystem Research Plan Olav Ormseth 86-26 | Unique Characteristics of Riverine Spawning Pygmy Whitefish Heidy K. Barnett 91-27 | Large-Scale Side Channel and Mainstem Restoration in the Chelan River Tom Schadt 78-27 |
| 5:00 PM | Trinity River Restoration Program: Data Use and Sharing for Adaptive Management in a Multi-Agency Program Eric Petersen 80-28 | Future Research Needs in Life Cycle Modeling and Empirical Survival Estimates Philip Roni 89-28 | Addressing Data Gaps for Intertidal Forage Fish Spawning Habitat in British Columbia Ramona C. de Graaf 86-27 | Status and Distribution of Western Washington's Olympic Mudminnow Molly Hallock 91-28 | Challenges and Returns of Rehabilitating Stream Habitat within the Human-Modified Environment - Chico Creek, Kitsap County, Washington Christina Avolio 78-28 |

| POSTERS INCLUDED IN SPECIFIC SYMPOSIA - WEDNESDAY | | | | | |
|---|--|---|--|---|--|
| Washington State Convention Center - 4C-2 | Washington State Convention Center - 4C-4 | Washington State Convention Center - 602 | Washington State Convention Center - 606 | Washington State Convention Center - 607 | Washington State Convention Center - 609 |
| <u>Climate Change and Pacific Salmonids - Part 1</u> | <u>Life History Variability in Marine Fish: Climate and Fishing Induced Controls</u> | <u>Fun with Fish - Innovative Education and Outreach Programs</u> | <u>Investigating the World of Lamprey Biology and Ecology</u> | <u>Management of Elasmobranch Fisheries: Sustainability, Conservation, and Regulation of Global Trade</u> | <u>Improving Survey Methods for Monitoring Recreational Fishing Effort and Catch</u> |
| Effects of Thermal Regime on Connectivity of Freshwater Systems and Population Spatial Structure Aimee Fullerton . | The Influence of Maternal Age Upon Fishery Harvest Reference Points Paul Spencer | COSEE Great Lakes: Michigan's Successful Fisheries Collaborations S. Stewart | Genetic and Morphological Differentiation of the Sea Lamprey Between Portuguese River Basins Catarina S. Mateus | The Salmon Shark, Lamna ditropis, in the Alaska Region; Data Needs and Management Challenges Christina Conrath | A Pilot Study of Telephone-Diary and Website-Diary Survey Methods for Monitoring Differences in Recreational Fishing from Private and Public Access Sites in the U.S., Virginia Lesser |
| The Variable Family Response of Emergence Timing for Spring Chinook Eggs Incubated Under Different Thermal Regimes Abby Tillotson | Effects of Maternal Growth on Fecundity and Egg Quality of Wild and Captive Atka Mackerel (<i>Pleurogrammus monopteryrius</i>) Susanne McDermott | Sharing Fisheries Research Data in the Classroom and Beyond: Outreach Strategies for Diverse Audiences S. Musick | European River and Brook Lampreys Habitat Preferences at Different Geographical Scales Pedro R. Almeida | Scaling of Bite Force Generation in the Cownose Ray, <i>Rhinoptera bonasus</i> , with Comments Regarding On-Bottom Aquaculture Matthew Kolmann | A Pilot Study Comparing License-Based Telephone, RDD Telephone, and On-Site Surveys of Marine Recreational Fishing Effort in Washington Wade Van Buskirk |
| | | Igniting a Legacy of Community-based Watershed Stewardship and Restoration on the McKenzie River, Oregon: The Initial Development of a Long-term Experiential Learning Program K. Meyer | Can Heart Tissue Fatty Acid Profile be Used as a Tool to Discriminate Sea Lamprey Populations in Several Portuguese River Basins? Pedro R. Almeida | Pacific Sleeper Shark Bycatch in Bering Sea Fisheries: Relationship Between Size, Depth, and Trophic Ecology Shannon O'Brien | Sampling Sites and Interview Times Simultaneously: Application to Fishery Intercept Surveys with Limited Staff James Chromy |
| | | Immersion Education: Kids in the Creek T. Walker | | Spatial and Temporal Variation in Vertebral Geochemical Composition: Evaluating the Potential to Distinguish Natal Origin from Natural Elemental Markers in Elasmobranchs Wade D. Smith | NOAA's National Saltwater Angler Registry Lauren Dolinger Few |
| | | Strategies of the Alaska Marine Science and Fisheries Career Coalition: Ocean Science Fairs and Scientist-Teacher Partnerships M. Sigman | | Changes in Spiny Dogfish Sex Ratio in Longline Commercial Fishery in the Cape Cod Area: Fishery Management Aspects Andrea Dell'Apa | Estimating Harvest of Anglers on Large Geographic Scale Using a Combined Telephone-Diary Survey Approach: Strength, Limitations and Some Findings Malte Dorow |
| | | Developing Targeted Marketing and Outreach Strategies for Michigan's Anglers J. Simoes | | Status and Conservation of Freshwater Sawfish in Northern Western Australia J. M. Whitty | Application of ARIMA Models to Time Series of Recreational Catch and Effort John Foster |
| | | Kindergarten Through College: Comprehensive Programming That Promotes Future Aquatic Conservation Advocates and Professionals D. Spencer | | Sharks and Marine Protected Areas in the Eastern Tropical Pacific A. R. Hearn | Estimating Effort in Tidally Influenced Shellfish Fisheries Of Oregon Estuaries Justin Ainsworth |
| | | | | | Improving private-access marine fishery surveys in California Ashok Sadrozinski |
| | | | | | Identification of Potential Survey Under-Coverage Biases Through Characterization of a Permit-Based Recreational Fishery Ron Salz |
| | | | | | Calibrating Charter Boat Fishing Effort Estimates Across Survey Changes in a Time Series Thomas R. Sminkey |
| | | | | | Approaches to Estimate Catch and Effort by Foreign Anglers in a Large, Widely Dispersed and Non-Licensed Recreational Fishery |