

38th Annual Meeting

15-18 November 2006

Death Valley, California

Desert Fishes Council

Consejo de los Peces del Desierto



Wednesday, 15 Nov. 2006

- 08:00 - 15:30 **Three Species Range-wide Coordination Team 2006 Annual Meeting**
Oasis Room at Furnace Creek Inn, located on hill to the east of Furnace Creek Ranch
- 17:00 - 20:00 **Registration and reg. package pickup** Desks in front of Visitor Center
- 17:00 - 00:00 **Informal gatherings and discussions** Furnace Creek Bar, pool area, rooms ...

Thursday, 16 Nov. 2006

- 08:30 - 09:00 **OPENING REMARKS** Visitor Center Auditorium
- 09:00 - 12:00 **GENERAL SESSION - 1** Visitor Center Auditorium
- 12:00 - 13:30 **LUNCH**
- 13:30 - 17:00 **GENERAL SESSION - 2** Visitor Center Auditorium
- 18:30 - 22:00 **EVENING DISCUSSION SESSION - Desert Fish Habitat Partnership**
Oasis Room at Furnace Creek Inn, located on hill to the east of Furnace Creek Ranch

Friday, 17 Nov. 2006

- 08:30 - 12:00 **GENERAL SESSION - 3** Visitor Center Auditorium
- 12:00 - 13:30 **LUNCH**
- 13:30 - 16:30 **GENERAL SESSION - 4** Visitor Center Auditorium
- 16:30 - 17:00 **POSTER SESSION** Visitor Center Auditorium
- 17:00 - 18:00 **BUSINESS MEETING** Visitor Center Auditorium
- 19:00 - 00:00 **BANQUET** The Date Grove between Furnace Creek Ranch & Visitor Center

Saturday, 18 Nov. 2006

- 08:30 - 12:00 **GENERAL SESSION - 5** Visitor Center Auditorium
- 12:00 - 13:30 **LUNCH**
- 13:30 - 17:00 **SPECIAL SESSION - Devil's Hole, Captive & Refuge Populations**
Visitor Center Auditorium
- 18:30 - 22:00 **EVENING DISCUSSION SESSION - Captive and Refuge Populations**
Oasis Room at Furnace Creek Inn, located on hill to the east of Furnace Creek Ranch

Sunday, 19 Nov. 2006

- 08:00 - **FIELD TRIP to Ash Meadows** Visitor Center Parking Lot

Wednesday, 15 Nov. 2006

08:00 - 15:30 Three Species Range-wide Coordination Team 2006 Annual Meeting

Location: Oasis Room at Furnace Creek Inn, located up on the hill to the east of Furnace Creek Ranch and the Visitor Center.

17:00 - 20:00 Registration and reg. package pickup

Location: Desks in front of Visitor Center.

17:00 - 00:00 Informal gatherings and discussions

Location: unspecified - Furnace Creek Bar, pool area, rooms ...

Thursday, 16 Nov. 2006

08:30 - 09:00 OPENING REMARKS

Location: Visitor Center Auditorium.

09:00 - 12:00 GENERAL SESSION - 1

Location: Visitor Center Auditorium.

09:00 Edwin P. (Phil) Pister, the man and his work

Brittan, Martin R.*¹. (1-California State University, Sacramento (emeritus)).

09:15 Impact of the Desert Fishes Council in México, after the first meeting in Monterrey

Contreras-Balderas, Armando*¹. (1-Universidad Autónoma de Nuevo León, F.C.B.).

09:30 *Fundulus n. sp.* (Teleostei: Fundulidae) from the Río San Fernando Basin, Nuevo León, México

García-Ramírez, Maria Elena¹; Contreras-Balderas, Salvador²; Lozano-Vilano, Maria de Lourdes*¹. (1-Universidad Autónoma de Nuevo León, F.C.B.; 2-Universidad Autónoma de Nuevo León, Bioconservación).

09:45 Desert fishes research and management in Texas during 2006

Garrett, Gary P.*¹; Edwards, Robert J.²; Allan, Nathan L.³; Hubbs, Clark⁴. (1-Texas Parks and Wildlife Department; 2-University of Texas – Pan American; 3-U.S. Fish and Wildlife Service; 4-University of Texas at Austin).

10:00 New Mexico Area Report: Upper/Middle Rio Grande and Pecos rivers, including Arkansas, Tularosa and Guzman basins

Brandenburg, Howard W.*¹; Brooks, Jim E.²; Davenport, Steve R.²; Remshardt, Jason W.²; Propst, David L.³; Carman, Stephanie M.³; Platania, Steve P.⁴; Dudley, Robert K.⁴. (1-University of New Mexico, Museum of Southwestern Biology, Division of Fishes; 2-U. S. Fish and Wildlife Service, New Mexico Fishery Resource Office; 3-New Mexico Department of Game and Fish; 4-American Southwest Ichthyological Researchers).

10:15 NE México Area Report - Water problems in Cuatro Ciénegas, the situation

Contreras Balderas, Salvador*¹. (1-Bioconservación, A.C.).

10:30 Partnering for Railroad Valley springfish conservation

Nielsen, Bridget*¹; Sjoberg, Jon²; Hobbs, Brian³; Millett, Jerry⁴; Sanchez, Virginia⁵; Scopettone, Gayton G.⁶. (1-U.S. Fish and Wildlife Service; 2-Nevada Department of Wildlife; 3-Nevada Department of

Wildlife; 4-Duckwater Shoshone Tribe; 5-Duckwater Shoshone Tribe; 6-U.S. Geological Survey, Biological Resources Division).

10:45 **Lower Colorado River Area Report, November 2005-2006**

Sponholtz, Pamela*¹. (1-U.S. Fish and Wildlife Service).

11:00 **Apariques and people: facilitating community participation to promote conservation of a rare fish in the Rio Conchos headwaters**

Cortés Montaña, Citlali*¹; Brooks, James E.²; Espinosa Pérez, Héctor³; Ramos Gómez, Mauro A.. (1-World Wildlife Fund - Mexico; 2-U.S. Fish and Wildlife Service, New Mexico Fishery Resources Office; 3-Instituto de Biología, UNAM).

11:15 **Multi-Species Conservation Plan efforts to prioritize razorback sucker and bonytail restoration sites**

Robertson, Mike*¹; Albrecht, Brandon¹; Holden, Paul¹. (1-BIO-WEST).

11:30 **Consultation and collaboration: Balancing water resource management with conservation of the endangered Moapa dace, *Moapa coriacea***

Marshall, Zane*¹. (1-Southern Nevada Water Authority).

11:45 **Oregon / N. California Area Report: Cow Head Tui Chubs, Private Stewardship and bad news for bass**

Reid, Stewart B.*¹; Allen, Chris²; White, Rollie²; Smith, Roger³; Tinniswood, Bill³; Gunckel, Stephanie⁴; Scherer, Paul⁴; Munhall, Allen⁵. (1-Western Fishes; 2-U.S. Fish & Wildlife, Portland; 3-Oregon Dept Fish & Wildlife, Klamath Falls; 4-Oregon Dept Fish & Wildlife, Corvallis; 5-U.S. Bur. Land Management, Lakeview).

12:00 - 13:30 LUNCH

13:30 - 17:00 GENERAL SESSION - 2

Location: Visitor Center Auditorium.

13:30 **Survey of aquatic food resources in the Middle Rio Grande, New Mexico**

Beck, Sarah*¹; Valdez, Richard¹; Medley, Nic²; Fluder, Joseph¹. (1-SWCA Environmental Consultants; 2-New Mexico Interstate Stream Commission).

13:45 **Response of the Green River fish community to Flaming Gorge Dam flow and water temperature regimes**

Bestgen, Kevin R.*¹; Zelasko, Koreen A.¹; Compton, Robert I.¹; Chart, Tom². (1-Larval Fish Laboratory, Colorado State University; 2-U. S. Fish and Wildlife Service, Salt Lake City, Utah).

14:00 **Status of smallmouth bass *Micropterus dolomieu* removal efforts in the middle Green River along with trends in other nonnative fish populations**

Monroe, Leisa D.*¹; Hedrick, Trina N.¹. (1-Utah Division of Wildlife Resources, Northeastern Regional Office, Vernal, UT).

14:15 **Entrainment of larval razorback sucker, *Xyrauchen texanus*, in three floodplains in the middle Green River**

Christopherson, Kevin D.¹; Bestgen, Kevin R.²; Hedrick, Trina N.*¹; Nelson, Pat³. (1-Utah Division of Wildlife Resources; 2-Larval Fish Lab, Colorado State University; 3-Program Director's Office, Upper Colorado River Recovery Implementation Program).

14:30 **How did the plains minnow replace the Rio Grande silvery minnow in the Pecos River?**

Moyer, Gregory R.²; Turner, Thomas F.*¹; Osborne, Megan J.¹. (1-University of New Mexico, Museum of SW Biology; 2-Oregon State University, Hatfield Marine Science Center).

- 14:45 **Assessing the impacts of non-native salmonids on Lahontan cutthroat trout in Independence Lake, and the means for their removal**
Rissler, Peter H.*¹; Scopettone, G. Gary¹. (1-US Geological Survey, Western Fisheries Research Center, Reno Field Station).
- 15:00 **Fishes of the Upper Rio Tutuaca, Chihuahua, México**
Brooks, James E. Mr.*¹; Tolle, Cindy Dr.²; Smith, Nick Mr.³; Brandenburg, W. Howard Mr.⁴; Varela Romero, Alejandro Mr.⁵; Kirkemide, Margaret Ms.⁶; Cortes Montaña, Citlali Ms.⁷. (1-U.S. Fish and Wildlife Service, New Mexico Fishery Resources Office; 2-Tutuaca Mountain Center; 3-New Mexico Department of Game and Fish; 4-University of New Mexico; 5-Universidad de Sonora, DICTUS; 6-U.S. Forest Service, Apache Sitgreaves National Forest; 7-World Wildlife Fund Mexico).
- 15:15 **Bonneville Basin Area Report**
Wilson, Krissy W.*¹; Miller, Peggy A.¹. (1-Utah Division Wildlife Resources).
- 15:30 **Population genetics and conservation of chubs from Arizona**
Schwemm, Michael R.*¹; Dowling, Thomas E.¹. (1-Arizona State University, School of Life Sciences, Tempe, Arizona 85287).
- 15:45 **Update on Lake Mead razorback sucker research, evidence of recent recruitment, and lessons learned from Lake Mead razorback suckers regarding species recovery**
Albrecht, Brandon*¹; Holden, Paul¹. (1-BIO-WEST, Fisheries Section).
- 16:00 **Recent trends in Grand Canyon humpback chub *Gila cypha* population suggest stabilization**
Andersen, Matthew E.*¹; Coggins, Lewis G. Jr.¹; Gwinn, Daniel C.¹. (1-U.S. Geological Survey, Grand Canyon Monitoring and Research Center).
- 16:15 **Fish surveys in the Verde River and Horseshoe reservoir during maximum and minimum reservoir levels**
Robinson, Anthony T.*¹. (1-Arizona Game and Fish Department).
- 16:30 **Potential impacts of mainstem and tributary diversions on three fish species in two southeastern Utah streams**
Walker, Craig A.*¹. (1-Utah Division of Wildlife Resources).
- 16:45 **Desert Fish Habitat Partnership: an emerging partnership under the National Fish Habitat Action Plan**
Gardner, Eric¹; Propst, David²; Sjoberg, Jon³; Fowler-Propst, Jennifer⁴; Kosa, Jarrad⁵; Boyer, Kathryn⁶; Beard, Douglas⁷; Allan, Nathan*⁸. (1-Arizona Game and Fish Department; 2-New Mexico Department of Game and Fish; 3-Nevada Department of Wildlife; 4-U.S. Fish and Wildlife Service; 5-Bureau of Land Management; 6-Natural Resources Conservation Service; 7-U.S. Geological Survey; 8-Desert Fishes Council).
- 18:30 - 22:00 EVENING DISCUSSION SESSION - Desert Fish Habitat Partnership**
Location: Oasis Room at Furnace Creek Inn, located up on the hill to the east of Furnace Creek Ranch and the Visitor Center.

Friday, 17 Nov. 2006

08:30 - 12:00 GENERAL SESSION - 3

Location: Visitor Center Auditorium.

- 08:30 **Recent records of the genus *Cycleptus* in the Conchos River, Chihuahua, México**
Lozano-Vilano, Maria de Lourdes*¹. (1-Universidad Autónoma de Nuevo León, F.C.B.).
- 08:45 **Status of the desert pupfish *Cyprinodon macularius* in California**
Keeney, Sharon D.*¹. (1-California Department of Fish and Game).
- 09:00 **Removing exotic fish species from large spring systems, Big Warm Springs, Duckwater Valley, Nevada**
Heinrich, James E.*¹; Hobbs, Brian¹; Nielsen, Bridget². (1-Nevada Department of Wildlife, Southern Region, Las Vegas, Nevada; 2-United States Fish and Wildlife Service, Reno, Nevada).
- 09:15 **John Otterbein Snyder, explorer of western fishes**
Brittan, Martin R. Dr.*¹; Jennings, Mark R. Dr.². (1-California State University, Sacramento, CA, Department of Biological Sciences, Emeritus.; 2-President, Rana Resources, Davis, CA.).
- 09:30 **The effects of temperature on the interaction between least chub, *Iotichthys phlegenthontis*, and western mosquitofish, *Gambusia affinis*: do mosquitofish have an “Achilles Heel”?**
Priddis, Edmund R.*¹; Rader, Russell B¹; Belk, Mark C¹. (1-Brigham Young University, Department of Integrative Biology).
- 09:45 **Northwestern Mexico Area Report: recent studies on fishes in Northwestern Mexico**
Ruiz-Campos, Gorgonio*¹; Varela-Romero, Alejandro²; Camarena-Rosales, Faustino¹; Duncan, Doug³; Reyes-Valdez, Claudia A.¹; Acosta-Zamorano, Dinora¹; Alaníz-García, Jorge¹. (1-Universidad Autónoma de Baja California, Facultad de Ciencias, Ensenada; 2-Universidad de Sonora, DICTUS, Hermosillo; 3-201 N. Bonita, Suite 141, Tucson, AZ 85745).
- 10:00 **Upper Colorado River Basin Area Report**
Christopherson, Kevin D.*¹. (1-Utah Division of Wildlife Resources).
- 10:15 **Effects of significant flooding on Aravaipa native and non-native fish communities**
Reinthal, Peter N.*¹; Blasius, Heidi²; Haberstitch, Mark³. (1-Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson; 2-BLM, Safford AZ; 3-The Nature Conservancy, Klondyke AZ).
- 10:30 **Mitochondrial and morphological advances in knowledge of northern Mexico’s native catfishes *Ictalurus* (Pisces: Ictaluridae)**
Varela-Romero, Alejandro*¹; Yepiz-Plascencia, Gloria; Hendrickson, Dean A.. (1-Department of Scientific and Technological Research, University of Sonora; 2-Aquatic Molecular Biology Laboratory, CIAD; 3-Texas Natural Science Center, University of Texas at Austin).
- 10:45 **Patterns of macroinvertebrate and metaphton diversity in desert wetlands of the Bonneville Basin, Utah**
Keleher, M. Jane*¹; Rader, Russell B.. (1-Brigham Young University, Department of Integrative Biology and Salt Lake Community College, Division of Natural Sciences; 2-Brigham Young University, Department of Integrative Biology).
- 11:00 **Rio Grande silvery minnow nursery habitat: linking geomorphology to essential life history requirements**
Beck, Sarah¹; Porter, Michael D.*²; Massong, Tamara M.². (1-SWCA Environmental Consultants; 2-U.S. Bureau of Reclamation).

- 11:15 **Foraging success of cyprinids along a turbidity gradient**
Remington, Rachael*¹. (1-University of Oklahoma).
- 11:30 **Native fish habitat restoration in selected tributaries of the Grand Canyon: a potential recovery effort for native fishes**
Leibfried, William C. Mr*¹; Hilwig, Kara Ms.¹. (1-SWCA Environmental Consultants).
- 11:45 **Backpack shocking and trout removal efficiency in Upper Bright Angel Creek, Grand Canyon**
Hilwig, Kara D.*¹; Leibfried, William C.¹; Serrato, Kevin¹. (1-SWCA Environmental Consultants).
- 12:00 - 13:30 LUNCH**
- 13:30 - 16:30 GENERAL SESSION - 4**
Location: Visitor Center Auditorium.
- 13:30 **Life history and ecological characteristics of the Santa Ana sucker**
Saiki, Michael K.*¹; Martin, Barbara A.¹; Knowles, Glen W.²; Tennant, Patrick W.³. (1-U.S. Geological Survey, Western Fisheries Research Center; 2-U.S. Fish and Wildlife Service; 3-Southern California Edison).
- 13:45 **Sculpin dispersal and phylogenetics in the interior of Western North America**
Shiozawa, Dennis K. Dr.*¹; Christensen, Dan Mr.¹; Evans, R. Paul Dr.²; Campbell, Matt Dr.³. (1-Brigham Young University, Department of Integrative Biology; 2-Brigham Young University, Department of Integrative Biology; 3-Brigham Young University, Department of Micro and Molecular Biology; 4-Idaho Game and Fish Department, Eagle Fish Genetics Laboratory).
- 14:00 **An assessment of long-term aquatic habitat change and Gila topminnow population trends for Cienega Creek, Pima County, Arizona - CANCELLED**
Simms, Jeffrey R.*¹; Simms, Karen M.; Duncan, Douglas K.; Bodner, Gita. (1-U.S. Bureau of Land management, Tucson Field Office, Tucson, AZ; 2-U.S. Bureau of Land management, Tucson Field Office, Tucson, AZ; 3-U.S. Fish and Wildlife Service, Ecological Services, Tucson, AZ; 4-The Nature Conservancy, Arizona Chapter, Tucson, AZ).
- 14:15 **Spatiotemporal population patterns of the Pecos bluntnose shiner, 1992-2005**
Hoagstrom, Christopher*¹; Brooks, James²; Davenport, Stephen². (1-Weber State University, Department of Zoology; 2-U.S. Fish and Wildlife Service, New Mexico Fishery Resources Office).
- 14:30 **Aspects of the life history of the San Felipe gambusia, *Gambusia clarkhubbsi*: habitat utilization patterns**
Edwards, Robert J.*¹; Garrett, Gary P.². (1-University of Texas-Pan American, Department of Biology; 2-Texas Parks and Wildlife Department, HOH Fisheries Science Center).
- 14:45 **Rediscovery of an “extinct” fish that was never described, *Gila* sp. of Parras de la Fuente, Coahuila, México: data on its description, ecology and captive care**
Garza-Tobón, Daniel*¹; Gómez-Garza, Miguel Ángel²; Chavaria-Gallegos, Roberto²; Valdéz-González, Arcadio³. (1-Museo del Desierto, Saltillo, Coahuila, México; 2-La Casa de los Loros, Monterrey, N. L., México; 3-Laboratorio de Acuacultura de la UANL, Monterrey, N. L., México).
- 15:00 **Changes in west Texas stream fishes 1954-2004**
Hubbs, Clark*¹. (1-Section of Integrative Biology, University of Texas at Austin).
- 15:15 **Phylogenetic patterns within Australian desert gobies**
Unmack, Peter J.*¹; Adams, Mark². (1-Brigham Young University, Integrative Biology; 2-South Australian Museum, Evolutionary Biology Unit).

- 15:30 **Effects of surface flow intermittence on a Great Plain's fish community, Pecos River, New Mexico**
Davenport, Stephen R.*¹; Hoagstrom, Christopher W.²; Brooks, James E.¹. (1-US Fish and Wildlife Service; 2-Weber State University).
- 15:45 **Wild fish health surveys required for fish repatriations**
Fulmer, James E.*¹. (1-Arizona Game and Fish Department, Research Branch).
- 16:00 **Researcher-community collaborations in Cuatrociénegas: An update on the DFC-sponsored research station**
Hendrickson, Dean A.*¹. (1-University of Texas at Austin).
- 16:15 **DFC contributions of species information to FishBase, a pre-existing web based database, and the preservation of the tracking table purpose**
Hilwig, Kara D.*¹. (1-Grand Canyon Monitoring and Research Center).
- 16:30 - 17:00 POSTER SESSION**
Location: Visitor Center Auditorium.
- 16:30 **Government surplus bomb storage containers make ideal holding tanks for fish research**
Ward, David L.*¹. (1-Arizona Game and Fish Department, Research Branch).
- 16:30 **Control of nonnative crayfish in a small desert stream using sterilization**
Carveth, Corissa*¹; Iles, Alison. (1-Arizona Game and Fish Department; 2-University of Arizona).
- 16:30 **Natural anti-parasitic properties of the Little Colorado River in Grand Canyon**
Ward, David L.*¹; Hunt, Teresa A.¹. (1-Arizona Game and Fish, Research Branch).
- 16:30 **Reintroduction of native fishes in Great Basin National Park**
Baker, Gretchen M*¹; Wheeler, Kevin². (1-Great Basin National Park; 2-Utah Division of Wildlife Resources).
- 16:30 **Taxonomic analysis of early juvenile *Gila* from Yampa Canyon, Dinosaur National Monument**
Snyder, Darrel E.*¹; Bestgen, Kevin R.¹; Davis, Diane L.¹; Finney, Samuel T.². (1-Larval Fish Laboratory, Colorado State University, Fort Collins; 2-U.S. Fish and Wildlife Service, Vernal, Utah).
- 16:30 **Baseline genetic survey of the Pecos bluntnose shiner**
Osborne, Megan J.*¹; Turner, Thomas F.¹. (1-University of New Mexico).
- 16:30 **Movement of bluehead suckers (*Catostomus discobolus*) in Grand Canyon**
Clark, Brian C.*¹. (1-Arizona Game and Fish Department).
- 16:30 **An assessment of predatory threats to razorback sucker (*Xyrauchen texanus*)**
Karam, Abraham P.*¹; Kesner, Brian R.¹; Schooley, Jason D.¹; Schwemm, Michael R.¹. (1-Arizona State University, School of Life Sciences).
- 16:30 **Recent trends in estimated fish abundance and mass in Marble and Grand Canyons: a story of sucker success**
Rogers, R. Scott*¹. (1-Arizona Game and Fish Department).
- 16:30 **Reproductive issues in the Jewel Cichlid, *Hemichromis guttatus*, an exotic species in Poza Churince, Cuatro Ciénegas, Coahuila, México**
Espinoza-Hernández, Salvador¹; García-Ramírez, Maria Elena*¹; Lozano-Vilano, Maria de Lourdes¹. (1-Universidad Autónoma de Nuevo León, FCB).

- 16:30 **The Native Fish Program at the Arizona Game and Fish Department**
Spencer, Amanda*¹; Meka, Julie¹; Cantrell, Chris¹; Timmons, Ross¹. (1-Arizona Game and Fish Department).
- 16:30 **Factors affecting development rates and population densities of fairy shrimp, *Branchinecta packardi*, in desert rock pools: is this the fastest species in the world?**
Behunin Thompson, Tammy*¹; Rader, Russell B.¹. (1-Brigham Young University). [Hubbs]
- 16:30 **Species composition of a desert rock pool metacommunity**
Kmetzsch, Cameron S.*¹; Rader, Russell B.¹. (1-Brigham Young University). [Hubbs]
- 16:30 **Status of the common carp control planning for Utah Lake**
Keleher, Chris¹. (1-Utah Dept. Natural resources).

17:00 - 18:00 BUSINESS MEETING
Location: Visitor Center Auditorium.

19:00 - 00:00 BANQUET
Location: Date Grove between Furnace Creek Ranch and the Visitor Center.

Saturday, 18 Nov. 2006

08:30 - 12:00 GENERAL SESSION - 5
Location: Visitor Center Auditorium.

- 08:30 **Geographic patterns of genetic variation in the catostomid fish Utah sucker**
Cardall, Brian L.*¹; Mock, Karen E.¹. (1-Utah State University, Dept. Wildland Resources). [Hubbs]
- 08:45 **Innovative techniques are contributing to knowledge of three native Colorado River Basin fishes in headwater streams of Wyoming**
Compton, Robert I.*¹; Hubert, Wayne A.¹; Rahel, Frank J.². (1-University of Wyoming, Wyoming Cooperative Fish and Wildlife Research Unit; 2-University of Wyoming, Department of Zoology and Physiology). [Hubbs]
- 09:00 **Evidence for high levels of gene flow among populations of a widely distributed anadromous lamprey *Entosphenus tridentatus* (Petromyzontidae)**
Goodman, Damon H.¹; Reid, Stewart*²; Docker, Margaret³; Kinziger, Andrew⁴. (1-U.S. Fish and Wildlife Service, Arcata Field Office; 2-Western Fishes; 3-University of Manitoba, Department of Zoology; 4-Humboldt State University, Fisheries Biology Department).
- 09:15 **Effect of Asian tapeworm on the growth and mortality of Yaqui chub and Yaqui topminnow**
Kline, S. Jason*¹; Bonar, Scott A.¹. (1-Arizona Cooperative Fish and Wildlife Research Unit). [Hubbs]
- 09:30 **Movement of leatherside chub within a Utah stream** [Hubbs]
Rasmussen, Josh E.*¹; Belk, Mark C.¹. (1-Brigham Young University, Department of Integrative Biology).
- 09:45 **The role of premating isolation in mediating the co-occurrence of *Gambusia affinis* and *G. nobilis***
Swenton-Olson, Daniella M.*¹. (1-University of New Mexico, Department of Biology). [Hubbs]

- 10:00 **Preliminary study of the physiochemical quality of water in the Santa Catarina River, Nuevo León, México**
Lozano-Vilano, Maria de Lourdes¹; Leza-Hernandes, Jesus Maria*¹; García-Ramírez, Maria Elena¹; Romero-Melchor, Diana Liceth¹; Contreras-Balderas, Armando¹. (1-Universidad Autónoma de Nuevo León, F.C.B.). [Miller]
- 10:15 **Preliminary list of the fishes of the Santa Catarina River, tributary to the San Juan-Bravo, Nuevo León, México**
Lozano-Vilano, Maria de Lourdes¹; Romero-Melchor, Diana Liceth*¹; Leza-Hernandes, Jesus Maria¹; García-Ramírez, Maria Elena¹; Contreras-Lozano, Jorge Armando¹. (1-Universidad Autónoma de Nuevo León, F.C.B.). [Miller]
- 10:30 **Genetic structure and management history of Mohave tui chub (*Siphateles bicolor mohavensis*)**
Chen, Yongjiu*¹; Parmenter, Steve²; May, Bernie³. (1-North Dakota State University, Department of Biological Sciences; 2-California Department of Fish and Game; 3-The University of California, Davis, Department of Animal Science).
- 10:45 **Biotic evaluation of Mohave tui chub, *Siphateles bicolor mohavensis* habitats; Lake Tuendae and MC Pond, Mojave National Preserve, CA**
Henkanaththegedara, Sujana, M.*¹; Stockwell, Craig A.¹. (1-North Dakota State University, Department of Biological Sciences). [Hubbs]
- 11:00 **Techniques for laboratory spawning of Mohave tui chub**
Archdeacon, Thomas P.*¹; Bonar, Scott A.¹. (1-University of Arizona, Department of Wildlife and Fisheries Science). [Hubbs]
- 11:15 **Collection and rearing of endangered Lost River and shortnose suckers in Upper Klamath Lake**
Russell, Kent N.*¹; Buettner, Mark¹; Larson, Ron¹. (1-US Fish & Wildlife Service, Klamath Falls, Oregon).
- 11:30 **Refuge for native fish: Aquatic and riparian habitat restoration**
Blasius, Heidi B*¹. (1-Bureau of Land Management, Safford Field Office).
- 11:45 **Long-term genetic studies in the Rio Grande silvery minnow to examine effects of population decline and of supportive breeding**
Osborne, Megan J.*¹; Turner, Thomas F.¹. (1-University of New Mexico).
- 12:00 - 13:30 LUNCH**
- 13:30 - 17:00 SPECIAL SESSION - Devil's Hole, Captive & Refuge Populations**
Location: Visitor Center Auditorium.
- 13:30 **Devils Hole pupfish recovery effort: Overview and update for 2006**
Martinez, Cynthia*¹; Wullschlegel, John²; Sjoberg, Jon³. (1-U.S. Fish and Wildlife Service, Nevada; 2-National Park Service, Water Resources Division; 3-Nevada Department of Wildlife).
- 13:45 **Devil's Hole pupfish (*Cyprinodon diabolis*) refuge management**
Barkstedt, Judith*¹; Heinrich, Jim¹; Bower, Mike²; Webber, Grant³. (1-Nevada Department of Wildlife; 2-National Park Service, Death Valley National Park; 3-U.S. Fish and Wildlife Service, Nevada).
- 14:00 **Changes in genetic structure of captive stocks of desert pupfish**
Koike, Haruko*¹; Echelle, Anthony A.¹; Loftis, Dustin G.¹; Van Den Bussche, Ronald A.¹. (1-Oklahoma State University, Department of Zoology).
- 14:15 **Hybridization of Devils Hole pupfish: insight and opportunity**
Martin, Andrew P*¹. (1-University of Colorado, Dept of Ecology and Evolutionary Biology).

- 14:30 **Conservation of the endangered Devils Hole pupfish through captive propagation efforts**
Webber, Grant*¹; Bower, Michael²; Figiel, Chester³; Valdez Gonzalez, Arcadio⁴; Jewell, Jewell⁵; Scott, John³. (1-US Fish and Wildlife Service, S. Nevada; 2-National Park Service, Death Valley; 3-USFWS Willow Beach Hatchery; 4-Universidad Autonoma de Nuevo Leon, Monterrey; 5-Shark Reef at Mandalay Bay, Las Vegas; 6-Shark Reef at Mandalay Bay).
- 14:45 **Devils Hole pupfish (*Cyprinodon diabolis*): an update on efforts in Devils Hole**
Bower, Michael R*¹; Martinez, Cynthia²; Sjoberg, Jon³; Webber, Grant²; Wullschleger, John⁴; Hobbs, Brian⁴. (1-National Park Service, Death Valley National Park; 2-US Fish and Wildlife Service, Nevada; 3-Nevada Department of Wildlife; 4-National Park Service, Water Resources Division).
- 15:00 **Preliminary results of temperature effect on the reproduction of four pupfish (*Cyprinodontidae*) from hot water springs**
Valdés Gonzalez, Arcadio*¹; Angeles Vileda, Maria Elena². (1-Lab. de Acuacultura, FCB UANL; 2-Lab. de Acuacultura, FCB UANL).
- 15:15 **California Bioregion Report**
Parmenter, Steve*¹; Russi, Terry²; Potter, Covey¹; Yoshioka, Glenn¹. (1-California Department of Fish and Game; 2-Bureau of Land Management).
- 15:30 **Is predator avoidance learned or hard-wired?**
Ward, David L.*¹; Hunt, Teresa A.¹; Figiel, Chester². (1-Arizona Game and Fish, Research Branch; 2-Willow Beach National Fish Hatchery).
- 15:45 **Benefit of physical exercise on escape performance and preliminary testing of predator avoidance in razorback sucker (*Xyrauchen texanus*).**
Mueller, Gordon A.*¹; Carpenter, Jeanette¹; Figiel, Chester²; Krapfel, Robert². (1-USGS; 2-FWS).
- 16:00 **Least chub: Recovery through aquaculture research and refuge populations**
Mills, Michael D.*¹; Wagner, Eric¹. (1-Utah Division of Wildlife Resources).
- 16:15 **Native fishes back into historical streams in east-central Arizona**
Avenetti, Lorraine D.*¹; Robinson, Tony¹; Fulmer, James¹. (1-Arizona Game and Fish Department - Research Branch).
- 16:30 **Roundtail chub (*Gila robusta*) brood and propagation program**
Cantrell, Chris J.*¹. (1-Arizona Game and Fish Department)
- 16:45 **The role of captive refuge populations in the conservation and recovery of Gila topminnow and desert pupfish**
Voeltz, Jeremy B.*¹; Duncan, Douglas K.². (1-U.S. Fish and Wildlife Service (Formerly Arizona Game and Fish Department); 2-U.S. Fish and Wildlife Service).

18:30 - 22:00 EVENING DISCUSSION SESSION - Captive and Refuge Populations
Location: Oasis Room at Furnace Creek Inn, located up on the hill to the east of Furnace Creek Ranch and the Visitor Center.

Sunday, 19 Nov. 2006

08:00 - FIELD TRIP to Ash Meadows
Location: Gather at the Visitor Center parking lot.