

Desert Fishes Council

Consejo de los Peces del Desierto

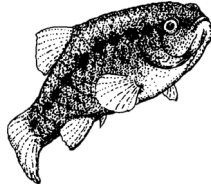
Dedicated to the Conservation of North America's Arid Land Ecosystems

Cuadragésimo Congreso Anual del Consejo de Peces del Desierto 40th Annual Meeting of the Desert Fishes Council

November 12-16, 2008

Schedule and Places at-a-Glance ([town map on last page](#))

Start	End	Event	Location
Wednesday, November 12			
17:00	21:00	Registration	CICC – see map last page
17:00	24:00	Icebreaker	CICC
Thursday, November 13			
8:00	18:00	Registration	CICC
9:00	9:15	Welcome to DFC (Phil Pister, Executive Secretary, DFC)	Casa de Cultura – see map last page
9:15	10:00	Opening Remarks	Casa de Cultura
10:00	10:15	Invited speaker: M.C. Ivo García Gutiérrez, Director of the Cuatrociénegas Natural Protected Area	Casa de Cultura
10:15	12:00	Special Symposium, Conservation of Mexican trout, Jim Brooks	Casa de Cultura
12:00	14:00	LUNCH	
14:00	18:15	Student Presentations, Eric Gustafson	Casa de Cultura
After hours		Informal social gathering	CICC
Friday, November 14			
9:00	10:30	Special Symposium, Habitat Restoration, Dean Hendrickson	Casa de Cultura
10:30	12:00	General Session 1, Pam Sponholtz	Casa de Cultura
12:00	14:00	LUNCH	
12:30	14:00	Area Coordinators Meeting: Kathryn Boyer	Santa Cecilia
14:00	15:30	General Session 2, Kathryn Boyer	Casa de Cultura
15:30	16:30	Poster Session	Casa de Cultura
16:30	18:00	Business Meeting	Casa de Cultura
20:00	01:00	Banquet: dinner, drinks and live music	El Marengo – see map last page
Saturday, November 15			
9:00	12:00	General Session 3, Matthew Andersen	Casa de Cultura
12:00	14:00	LUNCH	
14:00	18:00	General Session 4, Chris Hoagstrom	Casa de Cultura
After hours		Informal social gathering	CICC
Sunday, November 16			
8:00	17:00	Field Trips	
After hours		Informal social gathering	CICC



Desert Fishes Council

Consejo de los Peces del Desierto

Dedicated to the Conservation of North America's Arid Land Ecosystems

Wednesday, November 12, 2008

17:00–24:00 Arrival, check-in and ice-breaker social with munchies and drinks at the Cuatrociénegas Research Station (CICC – [see map last page](#))

Thursday, November 13, 2008

9:00-10:00 Inauguration (Casa de Cultura – [see map last page](#))

- Phil Pister, DFC Executive Secretary
- Dr. Dean Hendrickson, Director of the Cuatro Ciénegas Research Station / Director, Centro de Investigación Científica de Cuatrociénegas
- Lic. Gabriel Villareal Jordán , Mayor of the municipality of Cuatrociénegas
- Ing. Manuel González Felán, President, Technical Advisory Committee of the Protected Natural Area of Cuatrociénegas
- Ing. Alfonso Moncada, Presidente, Desuvalle, A.C.
- M.C. Ivo García Gutiérrez, Director of the Cuatrociénegas Natural Protected Area

10:00 **Management of Cuatrociénegas Natural Protected Area in Coahuila, Mexico: The role of science and research needs**

García, Ivo ¹, Ibarra, Juan ¹, Carrera, Julio ¹. (1-Comision Nacional De Areas Naturales Protegidas).

10:15-12:00 **Special Symposium, Conservation of Mexican Trout: Jim Brooks, Moderator**

10:15 **Opening Remarks**

Brooks, James ¹. (1-Truchas Mexicanas).

10:30 **Conservation genetic status of Gila trout**

Turner, Thomas F. ¹, Peters, Maureen B. , Wilson, Wade D. . (1-University of New Mexico, Museum of Southwestern Biology).

10:45 **Conservation strategies for the Conchos trout**

Brooks, James ¹. (1-Truchas Mexicanas).

- 11:00 **Expanding native trout conservation from the Conchos headwaters to the northern Sierra Madre Occidental in México**
Cortés Montaña, Citlali¹, Ramos Gómez, Mauro², Brooks, James E.³, Smith, Nick, Zapata López, Jenny⁴. (1-Northern Arizona University, School of Forestry, 2-Comisión Nacional de Áreas Naturales Protegidas - Dirección Regional Norte y Sierra Madre Occidental, 3-U.S. Fish and Wildlife Service, New Mexico Fish and Wildlife Conservation Office, 4-World Wildlife Fund - Programa Desierto Chihuahuense).
- 11:15 **Cultivo de truchas nativas en el Centro Acuícola Guachochi**
Banda Cortés, Miguel¹. (1-SAGARPA - Secretaría de Agricultura, Ganadería, Desarrollo Rural, Pesca y Alimentación).
- 11:30 **Conservation of the aparique trout**
Montes, Jose Luis¹, Zapata López, Jenny¹, Ramos Gómez, Mauro². (1-Programa Desierto Chihuahuense, WWF Programa México, 2-Comisión Nacional de Áreas Naturales Protegidas - Dirección Regional Norte y Sierra Madre Occidental).
- 11:45 **Closing Comments**
Montes, Jose Luis (WWF-MX), Brooks, James¹. (1-Truchas Mexicanas).
- 12:00-14:00 Lunch
- 14:00-18:00: **Student Award Presentations: Eric Gustafson, Moderator**
- 14:00 **Taxonomic and distributional ichthyofaunal study of selected areas in northwestern Zacatecas, Mexico.**
Solis-Carlos, Fernando¹, Lozano-Vilano, Ma de Lourdes², García-Ramírez, Ma Elena³. (1-Universidad Autónoma de Nuevo León).
- 14:15 **Morphologic and genetic variation of *Astyanax mexicanus* in the Atlantic slope of Mexico**
Sepulveda, Daniel A.¹, Espinosa, Hector¹, Garcia, Francisco². (1-Instituto de Biología, UNAM, 2-Centro de Investigaciones Biológicas del Noroeste).
- 14:30 **Reintroduction of an extinct fish, the Apodaca Monterrey Platy (*Xiphophorus couchianus*) in its natural habitat**
Chavarria Gallegos Sr., Roberto¹, Gomez Garza Sr., Miguel A.¹, Valdes Gonzalez, Arcadio³. (1-Consejo Mexicano de Peces del Desierto, 2-Centro de Resguardo de Especies en Peligro).
- 14:45 **A comparative field study on mating behaviors of the largespring gambusia, *Gambusia geiseri***
Lewis, Richard¹, Kroll, Christopher¹, Hargrave, Chad¹, Martin, Rachel¹, Rosado, Samir¹, Shoemaker, Landis¹, West, Janalyn¹, Deaton, Raelynn¹. (1-Sam Houston State University, Department of Biology).
- 15:00 **Test of a novel eradication method for a population of an invasive fish in a spring system in the Chihuahuan desert**
Dugan, Laura E.¹. (1-University of Texas, Section of Integrative Biology).
- 15:15 **Habitat of lowland leopard frogs in mountain canyons of southeastern Arizona**
Wallace, J. Eric¹, Steidl, Robert J.¹, Swann, Don E.². (1-University of Arizona, School of Natural Resources, 2-National Park Service, Saguaro National Park).
- 15:30 **Flood disturbance effects on desert aquatic invertebrates with varying life histories**
McMullen, Laura E.¹, Lytle, David A.¹. (1-Oregon State University, Department of Zoology).

- 15:45 **Determining trophic interactions in a complex lake food web using a size-dependent analysis of stable isotopes and stomach contents**
Landom, Kevin L.¹, Crowl, Todd A.². (1-Utah State University, Department of Watershed Sciences, 2-Utah State University, Ecology Center and Department of Watershed Sciences).
- 16:00 **Understanding the complex life history of a lacustrine sucker for conservation and management**
Hines, Brian A.¹, Crowl, Todd A.². (1-Utah State University, Department of Watershed Sciences, 2-Utah State University, Ecology Center and Department of Watershed Sciences).
- 16:15 **Intraspecies interactions in giant water bug populations in drying intermittent streams**
Boersma, Kate S.¹, Lytle, David A.¹. (1-Oregon State University, Department of Zoology).
- 16:30 **Morphological variation, genetic structuring, and stable isotopic signatures in the Utah Lake, Utah sucker complex**
Cole, David D.¹, Cardall, Brian L.², Mock, Karen E.², Crowl, Todd A.¹. (1-Utah State University, Ecology Center and Department of Watershed Sciences, 2-Utah State University, Department of Wildland Resources).
- 16:45 **Habitat preferences and movement of three desert fishes in a highly altered stream: implications for maintaining viable populations**
Bottcher, Jared L.¹, Budy, Phaedra², Thiede, Gary³. (1-Utah State University, 2-Utah State University, Utah Cooperative Fish and Wildlife Research Unit, 3-Utah State University).
- 17:00 **Effects of trammel nets on native Arizona fishes using cortisol as a stress index**
Hunt, Teresa A.¹, Propper, Catherine R.², Gibb, Alice C.². (1-Arizona Game and Fish Department, Northern Arizona University, 2-Northern Arizona University).
- 17:15 **Predator detection and learning ability in an endemic lake sucker**
Kraft, Stephanie¹, Crowl, Todd¹. (1-Utah State University, Ecology Center).
- 17:30 **Sex ratio and density alter male mating strategies in the coercive livebearing mosquitofish (*Gambusia affinis*)**
Cureton II, James C.¹, Martin, Rachel², Deaton, Raelynn³. (1-Sam Houston State University, Department of Biological Sciences).
- 17:45 **Impacts of mosquitofish, *Gambusia affinis*, on endangered Mohave tui chub, *Siphateles bicolor mohavensis*, growth and population dynamics: A mesocosm study approach**
Henkanaththegedara, Sujana M.¹, Stockwell, Craig A.¹. (1-North Dakota State University, Biological Sciences).
- 18:00 **Female reproductive success in a fish with a coercive mating system (*Gambusia affinis*)**
Martin, Rachel E.¹, Cureton II, James C.¹, Hargrave, Chad C¹, Deaton, P. Raelynn¹. (1-Sam Houston State University).

Friday, November 14, 2008

9:00-10:30: Special Symposium, Habitat Restoration: Dean Hendrickson, Moderator

- 9:00 **Restoration of the California golden trout in the South Fork Kern River, Kern Plateau, Tulare County, California, 1965-2004, with reference to Golden Trout Creek**
Pister, Edwin P. (Phil)¹. (1-Desert Fishes Council).

- 9:15 **Rehabilitation of School Spring, Ash Meadows, Nevada to improve habitat quality for Warm Springs pupfish, *Cyprinodon nevadensis pectoralis*, and its cohabiting thermal endemic invertebrates**
Andress, Robert J. ¹, McKelvey, Sharon ², Baldino, Cristi R. ², Weissenfluh, Darrick ², Goodchild, Shawn C. ², Scoppettone, Gayton G. ³. (1-Otis Bay Ecological Consultants, 2-U.S.Fish and Wildlife Service, 3-United States Geological Survey).
- 9:30 **Aquatic habitat restoration efforts on private lands in the upper Río Yaqui watershed, Arizona and Sonora**
Austin, Valer ¹, Austin, Josiah ¹. (1-Cuenca Los Ojos Foundation).
- 9:45 **Fixing broken ecosystems: Conservation and restoration in Fossil Creek and Cuatro Ciénegas**
Marks, Jane ¹, Dinger, Eric ¹, Haden, Allen ¹, O'neill, Matt ¹, Pace, Cinnamon ¹, Adams, Ken ¹, Compson, Zacchaeus ¹, Hendrickson, Dean ². (1-Northern Arizona University, Department of Biology, 2-University of Texas, Department of Biology).
- 10:00 **History of Cuatrociénegas' aquatic habitats with reflections on current conditions and restoration potential**
Hendrickson, Dean A. ¹. (1-University of Texas, Texas Natural History Collection, Austin, Texas, USA).
- 10:30-12:00: General Session 1: Pam Sponholtz, Moderator**
- 10:30 **Evidence of young humpback chub, *Gila cypha* , overwintering in the mainstem Colorado River, Marble Canyon, Arizona**
Andersen, Matthew E. ¹, Ackerman, Michael W. ², Hilwig, Kara D. ¹, Fuller, A. Elizabeth ¹, Abel, Angela A. ¹. (1-U.S. Geological Survey, Grand Canyon Monitoring and Research Center, 2-SWCA Environmental Consultants, Inc.).
- 10:45 **Desert fishes research and management in Texas during 2008**
Garrett, Gary ¹, Allan, Nathan ², Edwards, Robert ³. (1-HoH Fisheries Science Center, Texas Parks & Wildlife, 2-U.S.Fish and Wildlife Service, Ecological Services, 3-University of Texas-Pan American, Department of Biology).
- 11:00 **Lake Mead razorback sucker recruitment: An informative anomaly regarding continued, natural, wild razorback sucker recruitment despite nonnative fish presence**
Albrecht, Brandon ¹, Kegerries, Ron ¹, Holden, Paul ¹. (1-BIO-WEST, Inc., Fisheries Section).
- 11:15 **Conservation and management of the Quitobaquito pupfish, *Cyprinodon eremus*, in Sonora and Arizona**
Duncan, Doug ¹, Tibbitts, Tim ². (1-U.S.Fish and Wildlife Service, 2-National Park Service).
- 11:30 **Current status of the freshwater fishes of northern Coahuila, México**
Lozano-Vilano, M. de Lourdes ¹, Contreras-Balderas, Armando J. ². (1-Facultad de Biología, Laboratorio de Ictiología, Universidad Autónoma de Nuevo León, San Nicolás de los Garza, Nuevo León, México , 2-Facultad de Biología, Laboratorio de Ornitología, Universidad Autónoma de Nuevo León, San Nicolás de los Garza, Nuevo León, México).
- 11:45 **Could salt be used to control bullfrogs in small ponds?**
Ward, David ¹, Finch, Colton ², Blasius, Heidi ³. (1-Arizona Game and Fish, Research Branch, 2-University of Arizona, 3-Bureau of Land Management).
- 12:00-14:00 Lunch
- 14:00-15:30 General Session 2: Kathryn Boyer, Moderator**
- 14:00 **History and management of the endemic *Ambrysius* of Ash Meadows, Nye County, Nevada**
Goodchild, Shawn C. ¹, Parker, Michael S. ². (1-U. S. Fish and Wildlife Service, Nevada Fish and Wildlife Office, 2-Southern Oregon University, Department of Biology).

14:15 Phylogeographic patterns within the central Australian rainbowfishes

Umack, Peter J¹, Adams, Mark², Dowling, Thomas E.³. (1-Brigham Young University, Department of Biology, 2-South Australian Museum, Evolutionary Biology Unit, 3-Arizona State University, School of Life Sciences).

14:30 Ecomorphological relations between *Cottus* species and their environment in northeastern Utah

Hoagstrom, Christopher¹, Holmes, Nathan¹. (1-Weber State University, Department of Zoology).

14:45 Bonneville Basin Area Report

Wilson, Krissy W.¹. (1-Utah Division Wildlife Resources).

15:00 Reintroduction of five native fish species into Ash Creek Arizona: Partnerships and policy change

Carveth, Cori¹, Cantrell, Chris². (1-Golder Associates Inc., 2-Arizona Game and Fish Department).

15:15 The state of Devils Hole and the Devils Hole pupfish in 2008

Barrett, Paul J¹, Bower, Mike², Wilson, Kevin P², Wullschlegler, John³, Sjoberg, Jon⁴, Harris, Sean⁴. (1-U.S. Fish and Wildlife Service, 2-National Park Service, Death Valley National Park, 3-National Park Service, 4-Nevada Department of Wildlife).

15:30-16:30 Poster Session

***Freshwater fishes of Mojave River, California: past and present**

Henkanathhegedara, Sujana M. 1, Seigel, Jeffrey A. 2, Hughson, Debra L. 3, Parmenter, Steve 4, Huffine, Matthew 5, Stockwell, Craig A. 1. (1-North Dakota State University, Biological Sciences, 2-Natural History Museum of Los Angeles County, 3-National Park Service, Mojave National Preserve, 4-California Department of Fish and Game, 5-Academy For Academic Excellence, Mojave River Campus, Lewis Center For Educational Research).

Microsatellite primer development for the largespring gambusia, *Gambusia geiseri

Cureton II, James C. 1, Buchman, Anna B. 2, Randle, Chris P. 3, Deaton, Raelynn 4. (1-Sam Houston State University, Department of Biological Sciences).

Effects of global climate change on Devils Hole and the Devils Hole pupfish *Cyprinodon diabolis*

Barrett, Paul J 1, Deacon, James E 2. (1-US Fish and Wildlife Service, 2-University of Nevada, Las Vegas).

2008 Nevada Area Report

Miskow, Eric, S 1, Goodchild, Shawn 2, Hobbs, Brian 3, Sjoberg, Jon 3, Potter, Dave 2, Petersen, Jeff 3. (1-Nevada Natural Heritage Program, 2-U.S. Fish and Wildlife Service, 3-Nevada Department of Wildlife).

Comparison of bones with taxonomic value using geometric morphometrics for the identification of, *Siphateles bicolor*, subspecies from the Owens River basin

Galicia, David 1, Parmenter, Steve 2, Leunda, Pedro M. 3, Madoz, Javier 4, Miranda, Rafael 1. (1-University of Navarra, Department of Zoology & Ecology, 2-California Department of Fish and Game, Eastern Sierra Inland Deserts Region, 3-GAVRN, S.A., 4-Flumen estudios y proyectos ambientales, S.L.).

Are spotting patterns used as a cue in mate choice and species recognition in the livebearing fish *Poeciliopsis baenschi*?

Scott, Laura E. 1, Camargo, Ashley 1, Stilson, Kent 1, Johnson, Jerald B. 1. (1-Brigham Young University, Department of Biology).

The Fishes of Texas Project

Hendrickson, Dean A. 1, Cohen, Adam E. 1, Dugan, Laura 2, Garrett, Gary P. 3, Edwards, Robert J. 4. (1-University of Texas, Texas Natural History Collection, Austin, Texas, USA, 2-University of Texas, Section of Integrative Biology, 3-Texas Parks and Wildlife, Heart of the Hills Research Station, 4-University of Texas Pan American, Biology).

Fundulus sp. nov. (Teleostei: Fundulidae) de la Cuenca del Río Soto La Marina, Nuevo León, México

García-Ramírez, María E. 1, Contreras-Balderas, Salvador 2, Lozano Vilano, María de L. 3. (1-Universidad Autónoma de Nuevo León, 2-Bioconservación A.C.).

Phylogeography, geometric morphometrics, and life history variation of the knife livebearer, *Alfaro cultratus* (Cyprinodontiformes: Poeciliidae) from Costa Rica

Bagley, Justin C. 1, Brummer, Tessa 1, Nay, Lacey 1, Johnson, Jerald B. 1. (1-Brigham Young University, Department of Biology).

Métodos estandarizados para el muestreo de peces dulceacuícolas de Norteamérica

Mercado-Silva, Norman 1, Bonar, Scott A. 1. (1-Arizona Fisheries and Wildlife Cooperative Unit, School of Natural Resources, University of Arizona).

Fish community structure in relation to environmental factors on a Biosphere Reserve of Hidalgo State (Hidalgo, Mexico)

Miranda, Rafael 1, Galicia, David 1, Vilches, Antonio 1, Bautista-Hernández, Christian E. 2, Monks, Scott 2, Pulido-Flores, Griselda 2, Gaspar, Sergio 3, Leunda, Pedro M. 4. (1-University of Navarra, Department of Zoology & Ecology, 2-Centro de Investigaciones Biológicas, Universidad Autónoma del Estado de Hidalgo, México, 3-Universidad de la Amazonía, Colombia, 4-GAVRN, S.A.).

*Denotes author under consideration for Poster Award

16:30-18:00 Business Meeting

20:00-01:00 Banquet: dinner, drinks and live music at El Marengo – [see map last page](#)

Saturday, November 15, 2008

9:00-12:00 General Session 3, Matthew Andersen, Moderator

9:00 Patterns of genetic diversity in a community of cyprinid fish in the Pecos river, New Mexico

Osborne, Megan J. ¹, Diver, Tracy A. ¹, Turner, Thomas F. ¹. (1-University of New Mexico, Department of Biology).

9:15 The Desert Fish Habitat Partnership: Striving for no more extinctions

Blasius, Heidi B ¹, Boyer, Kathryn ¹, Cantrell, Chris ¹, Sjoberg, Jon ¹. (1-Bureau of Land Management, Safford Field Office, 2-USDA, Natural Resources Conservation Service, 3-Arizona Game and Fish Department, 4-Nevada Department of Wildlife).

9:30 Oregon / Northern California Area Report, November 2007-2008

Scheerer, Paul ¹, Mauer, Alan ², Reid, Stewart ³, Hogen, Dave ⁴, Walters, Tim ¹. (1-Oregon Department of Fish and Wildlife, 2-U.S. Fish and Wildlife Service, 3-Western Fishes, 4-U.S. Forest Service).

9:45 An overview of captive breeding methods for five imperiled desert chub and topminnow species

Bonar, Scott A. ¹, Archdeacon, Thomas P. ¹, Iles, Alison ¹, Kline, S. Jason ¹, Schultz, Andrew A. ¹, Sontz, Erica ¹. (1-Arizona Fisheries and Wildlife Cooperative Unit, School of Natural Resources, University of Arizona).

10:00 *Megupsilon aporus* and *Cyprinodon alvarezii*: Observations in the field and laboratory behavior of two cyprinodontid fishes extinct in the wild

Liu, Robert K. ¹. (1-Ornament Magazine).

10:15 Population genetics of Ash Meadows pupfish

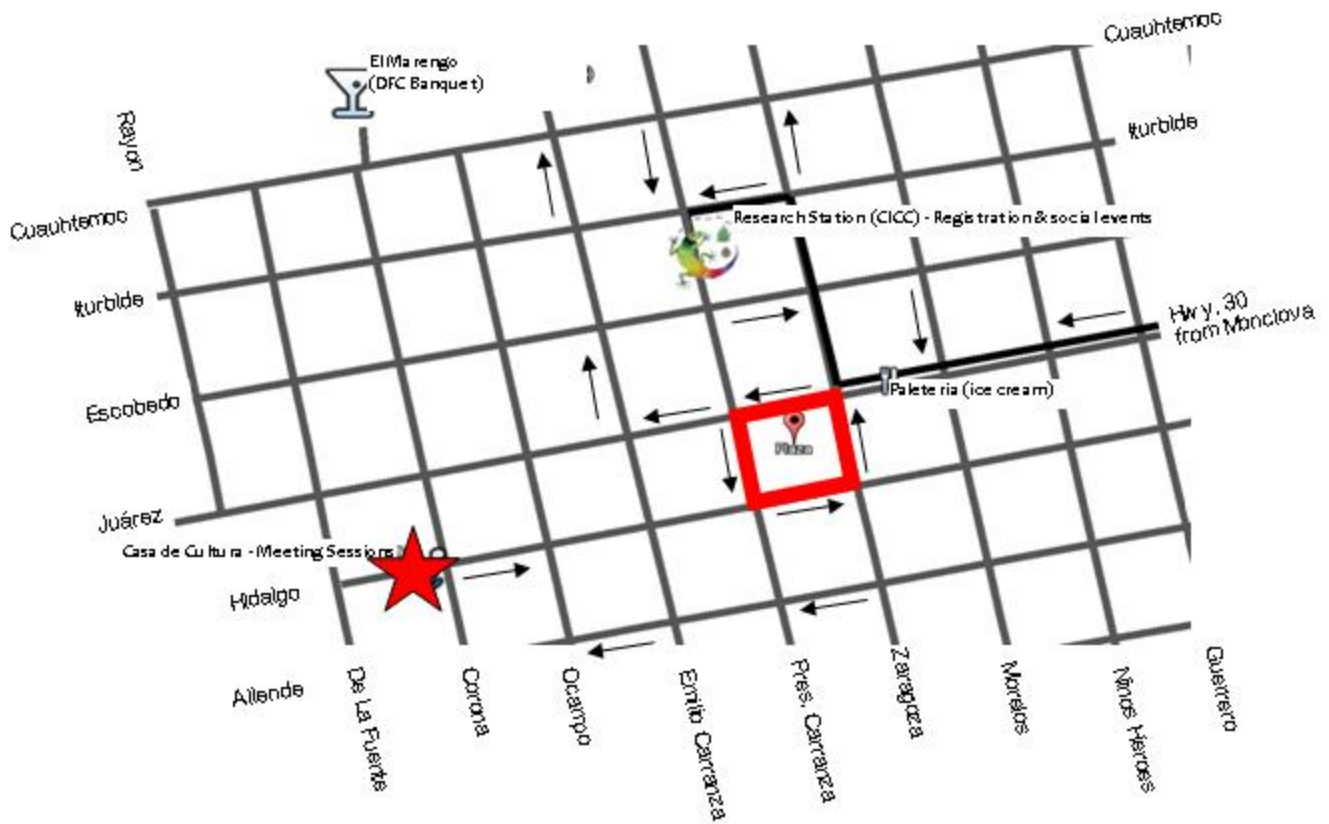
Martin, Andrew ¹. (1-University of Colorado, Dept of Ecology and Evolutionary Biology).

10:30 Conservation of aquatic and riparian systems: the need to evaluate alternative management strategies

Kodric-Brown, Astrid ¹, Brown H, James ¹. (1-University of New Mexico, Biology Department).

- 10:45 **Preliminary report of a new platy, *Xiphophorus* sp., from near Monterrey, Nuevo León, México**
Valdés-Gonzalez, Arcadio ¹, Contreras-Balderas, Salvador ², Angeles-Villeda, Maria Elena ¹. (1-Lab de Acuacultura, Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León, , 2-Bioconservación, A. C. Apartado Postal 405 San Nicolás de los Garza, Nuevo León, México 66450).
- 11:00 **Isolated oases in the Sierra El Aguaje, Sonora, México: a biological inventory of aquatic animal species**
Bogan, Michael T. ¹, Noriega-Felix, Nohemí ², Vidal Aguilar, Sylvette L. ², Gutiérrez, Oscar ², Alvarado, Andrés ², Findley, Lloyd T. ³, Varela-Romero, Alejandro ⁴, Lytle, David A. ¹. (1-Oregon State University, Department of Zoology, 2-Centro de Estudios Superiores del Estado de Sonora, Hermosillo, 3-Centro de Investigación en Alimentación y Desarrollo-Unidad Guaymas, Sonora, 4-Departamento de Investigaciones Científicas y Tecnológicas, Universidad de Sonora, Hermosillo).
- 11:15 **Upper Colorado River Basin Area Report: A brief discussion of the past and future of the Green River sub-basin**
Hedrick, Trina N. ¹. (1-Utah Division of Wildlife Resources).
- 11:30 **Consultation and collaboration: Balancing water resource management with conservation of the endangered Moapa dace, *Moapa coriacea***
Syzdek, David J ¹. (1-Southern Nevada Water Authority).
- 11:45 **Adaptive radiations in *Cyprinodon* body shape explained by salinity and other ecological factors**
Collyer, Michael L. ¹. (1-Stephen F. Austin State University, Department of Biology).
- Lunch 12:00-14:00
- 14:00-18:15 **General Session 4, Chris Hoagstrom, Moderator**
- 14:00 **The presence of a congeneric predicts life history and body shape variation in the livebearing fish, *Poeciliopsis baenschi***
Scott, Laura E. ¹, Johnson, Jerarld B. ¹. (1-Brigham Young University, Department of Biology).
- 14:15 **Native fish conservation, and management in the upper/middle Rio Grande basin, Pecos River, Canadian River, Tularosa and Guzman basins, New Mexico during 2007 and 2008.**
Davenport, Stephen R. ¹, Brooks, James E. ¹, Remshardt, W. Jason ¹, Propst, David L. ², Zymonas, Nik D. ², Carman, Stephanie M. ², Platania, Steven P. ³, Brandenburgh, W. Howard ³. (1-U.S. Fish and Wildlife Service, 2-New Mexico Department of Game and Fish, 3-American Southwest Ichthyological Researchers).
- 14:30 **Assessing habitat availability and use by endangered Colorado pikeminnow, *Ptychocheilus lucius*, and other native and non-native fish in the San Juan River, New Mexico-Utah**
de la Hoz, Ernesto A. ¹, Holden, Paul ¹. (1-BIO-WEST, Inc, Fisheries Section).
- 14:45 **Monitoring the status of the endangered Borax Lake chub, *Gila boraxobius*, in a geothermal lake in southeastern Oregon**
Scheerer, Paul ¹, Jacobs, Steve ¹. (1-Oregon Department of Fish and Wildlife).
- 15:00 **Status and management of the relict leopard frog, *Rana onca* , in southern Nevada and northern Arizona**
Haley, Ross D ¹, Drake, Dana ², Jaeger Dr., Jef ², Sjoberg, Jon ³. (1-National Park Service, Lake Mead NRA, 2-Public Lands Institute, Universtiy of Nevada Las Vegas, 3-Nevada Department of Wildlife).
- 15:15 **Status and conservation of native catostomids in the Lower Pecos River, New Mexico**
Zymonas, Nikolas D. ¹, Propst, David L. ¹. (1-New Mexico Department of Game and Fish).

- 15:30 **Contrasting demographic and genetic estimates of dispersal in the endangered Coahuilan box turtle**
Howeth, Jennifer ¹, McGaugh, Suzanne ², Hendrickson, Dean ³. (1-Section of Integrative Biology, University of Texas, Austin, 2-Department of Ecology, Evolution, and Organismal Biology, Iowa State University, Ames, 3-Section of Integrative Biology & Texas Natural Science Center, University of Texas, Austin).
- 15:45 **The status of Zuni bluehead sucker: Are our efforts working?**
Carman, Stephanie ¹, Luna, Nelson ². (1-New Mexico Department of Game and Fish, 2-Pueblo of Zuni Fish and Wildlife Department).
- 16:00 **Re-establishment of a population of Virgin spinedace, *Lepidomeda mollispinis mollispinis*, in upper Beaver Dam Wash, Nevada**
Beckstrand, Mark ¹, Sjoberg, Jon C. ², Heinrich, Jim ³, Anderson, Cory ¹. (1-Nevada Department of Wildlife, 2-Nevada Department of Wildlife, 3-Oregon Department of Fish and Wildlife,).
- 16:15 **Assessing hybridization between Yaqui catfish, *Ictalurus pricei*, channel catfish, *I. punctatus*, and blue catfish, *I. furcatus*, using microsatellite markers**
Baker, Sherri ¹, Keeler-Foster, Connie ¹, Radke, William ². (1-U.S. Fish and Wildlife Service, Dexter National Fish Hatchery and Technology Center, 2-U.S. Fish and Wildlife Service, San Bernardino National Wildlife Refuge).
- 16:30 **Effects of salinity on White Sands pupfish (*Cyprinodon tularosa*) reproduction and population size**
Rogowski, David ¹, Stockwell, Craig ². (1-Texas Tech University, Dept. Natural Resources Management, 2-North Dakota State University, Dept. Biological Sciences).
- 16:45 **Comparison of two methods for implanting passive integrated transponders in Rio Grande silvery minnow**
Archdeacon, Thomas P. ¹, Remshardt, W. Jason ¹, Knecht, Tammy L. . (1-U.S. Fish and Wildlife Service, New Mexico Fish and Wildlife Conservation Office).
- 17:00 **Polyphyly, hybridization, and cryptic biodiversity among *Micropterus* (Teleostei: Centrarchidae)**
Bagley, Justin C. ¹, Mayden, Richard L. ², Roe, Kevin J. ³, Holznagel, Wallace ¹, Harris, Phillip M. ¹. (1-University of Alabama, Biodiversity & Systematics, Department of Biological Sciences, 2-Saint Louis University, Department of Biology, 3-Iowa State University, Department of Natural Resource Ecology and Management).
- 17:15 **Taking the long view: lacustrine, fluvial, and marine-type stromatolites of the Cuatro Ciénegas Basin with fundamentally different methods of formation and preservation potential**
Winsborough, Barbara M. ¹. (1-Winsborough Consulting).
- 17:30 **Fish fossils and stable isotopes as paleo-indicators of ichthyofauna composition and climatic change in Lake Malawi, Africa**
Reinthal, Peter N ¹, Cohen, Andrew ², Dettman, David L. ², McDonough, Lisa Brooke ³. (1-University of Arizona, Department of Ecology and Evolutionary Biology, 2-University of Arizona, Department of Geosciences, 3-University of Arizona, School of Natural Resources).
- 17:45 **Lower Colorado River Area Report, November 2007-2008**
Sponholtz, Pamela ¹, Kegerries, Ron ², Sjoberg, Jon ³, Paroz, Yvette ⁴, Blasius, Heidi ⁵, Robinson, Tony ⁶, Andersen, Matthew ⁷, Fitzpatrick, Lesley ¹. (1-U.S. Fish and Wildlife Service, 2-BIO-WEST, Inc., 3-Nevada Department of Wildlife, 4-New Mexico Department of Game and Fish, 5-Bureau of Land Management, 6-Arizona Game and Fish Department, 7-U.S. Geological Survey, Grand Canyon Research and Monitoring Center).



Basic map of the central area of Cuatrociénegas showing streets and principal meeting event sites. Follow black line on arrival from the east (from Monclova/San Buenaventura) to go first to the Research Station (CICC) to check in for the meeting. On arrival there you'll find the "ice-breaker" party in progress, with light munchies and drinks, as well as help and transportation to get you to your hotel and checked in.

Entering town from the east, continue straight (west) and keep an eye out for the paletaria on your left, with its pink elephant-head trash can in front. One half block past it, at the first corner of the plaza, turn right on Zaragoza. If you miss this turn, don't worry, starting at the next corner make 3 left turns to circumnavigate the plaza (note that all streets leading to and from the plaza [and at least one block on all sides of the plaza] are all one-way streets and the CICC is on a one-way street southbound toward the plaza). At the second intersection from the plaza turn left on Iturbide, then left again at the next corner (i.e. heading back toward the plaza on Presidente Carranza). The research station will be on your left about mid-block.

This map, marking only the three sites of organized meeting events, was produced from the interactive Google Earth map available from the meeting website (http://desertfishes.org/meetings/2008/call_2008.html). In that map, copies of which will be available at the registration desk, you will find far more markers for restaurants, hotels, museums, places to buy groceries, beer, etc.

¡Buen viaje!