



**TECHNICAL SESSIONS PROGRAM:  
AMS-WSM 2010 JOINT ANNUAL MEETING  
SDSU AZTEC CONFERENCE CENTER**

**SUNDAY      JUNE 27, 2010      BACKDOOR**

- 9:00 A.M.      ***Welcome, Introductory Remarks and Announcements***  
Douglas J. Eernisse, George L. Kennedy and Hans Bertsch
- 9:10 A.M.                      SPECIAL SESSION ON INVASIVE MOLLUSCS
- 9:10 – 9:15      Jennifer L. Burnaford  
***Opening remarks and introduction***
- 9:15 – 10:00      Andrew N. Cohen  
***Quagga and Zebra Mussels in the Western U.S.: Invasion and response 2007-2010***
- 10:00 – 10:20      Break
- 10:20 – 10:40      Dawn E. Dittman  
***Dreissena bugensis in Lake Ontario and the Finger Lakes of New York***
- 10:40 – 11:00      Henry S. Carson, M. Paola López-Duarte and Lisa A. Levin  
***Population connectivity of Mytilus galloprovincialis in southern California***
- 11:00 – 11:20      Jeffrey A. Crooks  
***Temporal dynamics of biological invasions and the lag effect***
- 11:20 – 11:40      Andrew L. Chang, April M. H. Blakeslee, A. Whitman Miller and Gregory M. Ruiz  
***Where is it from and how did it get here? Investigating invasions of the North Atlantic gastropod Littorina littorea in California***
- 11:40 – 12:00      Heidi W. Weiskel, J. E. Byers, T. C. Huspeni, C. J. Zabin, C. M. Bowles, C. Brown, and E. D. Grosholz  
***Demographics and eradication of two new invasive populations of Batillaria attramentaria in California***
- 12:00 – 1:30 P.M.      Lunch break

- 1:30 – 1:50 Danuta M. Bennett, Tom D. Dudley, Scott Cooper  
***Experimental and monitoring studies of the invasive snail *Potamopyrgus antipodarum* in southern California streams***
- 1:50 – 2:10 Marion E. Wittmann, John E. Reuter, Sudeep Chandra, S. Geoffrey Schladow and Brant C. Allen  
***Asian clam (*Corbicula fluminea*) invasion in Lake Tahoe: The ecology and management of an invasive bivalve in an oligotrophic lake***
- 2:10 – 2:30 Jennifer L. Burnaford, Scottie Y. Henderson and Bruno Pernet  
***Assemblage shift following population collapse of invasive *Mercenaria mercenaria* in an urban southern California lagoon***
- 2:30 – 2:50 Elizabeth C. Davis-Berg  
***Mucous trail following in the rosy wolf snail *Euglandina rosea****
- 2:50 – 3:10 Megan E. Paustian, Pedro Barbosa and Timothy A. Pearce  
***Evaluating competition between the invasive slug *Arion subfuscus* (Draparnaud) and the native slug *Philomycus carolinianus* (Bosc)***
- 3:10 – 3:30 Break
- 3:30 – 3:50 Wallace M. Meyer III and Robert H. Cowie  
***Rapoport's rule as a tool for assessing the potential distribution and conservation implications of non-native species on tropical islands***
- 3:50 – 3:55 Jennifer L. Burnaford  
***Closing remarks***
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- 4:00 – 4:20 Andrew N. Cohen  
***The history of native oysters in San Francisco Bay: Implications for restoration***
- 4:20 – 4:40 Maria Rosa, J. Evan Ward, Sandra E. Shumway, Emmanuelle Pales Espinosa, Bassem Allam, Gary H. Wikfors and Bridget A. Holohan  
***The role of particle surface properties on selection by the Eastern Oyster *Crassostrea virginica* and the Blue Mussel *Mytilus edulis****
- 4:40 – 5:00 Kenneth M. Brown, Barry Aronhime and Xueying Wang  
***Crab predation causes size-specific inducible response in Hooked Mussels***
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- 6:30 – 9:00 Patrick I. LaFollette  
Evening workshop: ***Malacological Literature and Resources on the Internet***  
Cuicacalli Hall, Seminar Rooms A+B
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SUNDAY

27 June 2010

CASA REAL

10:20 A.M.

CONTRIBUTED PAPERS ON MARINE MOLLUSKS

10:20 – 10:40 André F. Sartori

*Anomalous by nature: A fresh look at Anomalodesmatan systematics*

10:40 – 11:00 Jingchun Li

*Host races or ecomorphs? Testing host-mediated speciation in two marine commensal bivalve species*

11:00 – 11:20 Orquidea Lozada Flores and M. Martha Reguero

*Bivalves of the COMA: Taxonomic validation*

11:20 – 11:40 Paul M. Tuskes and Jennifer A. Kelly

*Observations on the biology of Neosimnia barbarentis and predator-prey interaction with the sea pen host, Acanthoptilum sp.*

11:40 – 12:00 James H. McLean

*Revision of recent and fossil Liotiidae (Gastropoda: Vetigastropoda)*

12:00 – 1:30 P.M.

Lunch break

1:30 – 1:50

Emilio Michel Morfin, Luis M. Bautista and Oscar E. Holguin

*Purple dye snail Plicopurpura pansa (Gould, 1853) from Isla Socorro, Revillagigedo Archipelago, México (1997 & 2010 surveys)*

1:50 – 2:10

Rebecca M. Price

*Elevated temperatures have a minimal effect on growth in Nucella lamellosa*

2:10 – 2:30

Z. Graciela Castillo Rodríguez and Felipe Amezcua

*Stramonita biserialis (de Blainville, 1832) (Gastropoda: Muricidae) on the Pacific Coast of Mexico*

2:30 – 2:50

Fabio Moretzsohn

*Interspecific variation of odontophores in the Cypraeidae (Mollusca: Gastropoda) suggest they are taxonomically informative*

2:50 – 3:10

Jann E. Vendetti

*Predation at a snail's pace: Time-lapse photography in neogastropod whelks*

3:10 – 3:30

Break

3:30 – 3:50

Ángel A. Valdés and Elysse Gatdula

*Systematics, evolution, and cryptic diversity of tropical Atlantic Chelidonura (Opisthobranchia: Cephalaspidea)*

3:50 – 4:10

Ulysses Gatdula

*Phylogeny of Cyerce (Opisthobranchia) with the description of a new species from Guam*

- 4:10 – 4:30 Luis E. Gonzalez Jr. and Ángel A. Valdés  
*Molecular and morphological phylogeny of the genus Dondice*
- 4:30 – 4:50 Hans Bertsch and Cathy Marlett  
*The Seri, the sun and the slug: Cultural and natural history of Berthellina ilisima (Opisthobranchia) from the central Sea of Cortez*
- 4:50 – 5:00 Patrick I. LaFollette  
Introduction to evening workshop on: *Malacological literature and resources on the Internet*
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- 6:30 – 9:00 Patrick I. LaFollette  
Evening workshop: *Malacological Literature and Resources on the Internet*  
Cuicacalli Hall, Seminar Rooms A+B

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**MONDAY**

**28 June 2010**

**BACKDOOR**

- 9:00 A.M. MOLLUSCAN PALEONTOLOGY 2010:  
CONTRIBUTED PAPERS IN HONOR OF LOUELLA R. SAUL
- 9:00 – 9:20 Lindsey T. Groves  
*Opening remarks and tribute to LouElla R. Saul*
- 9:20 – 9:40 Richard L. Squires and LouElla R. Saul  
*Groups of Northeast Pacific Cretaceous gastropods and bivalves*
- 9:40 – 10:00 LouElla R. Saul and Richard L. Squires  
*The curious posture of the Cretaceous aporrhaid gastropod Tessarolax*
- 10:00 – 10:20 Break
- 10:20 – 10:40 Bernard M. Landau and Lindsey T. Groves  
*Cypraeidae (Mollusca: Gastropoda) from the lower Miocene Cantare Formation of northern Venezuela*
- 10:40 – 11:00 Edward J. Petuch  
*A bernayine cowrie species radiation from the Plio-Pleistocene Everglades Pseudoatoll*
- 11:00 – 11:20 John M. Alderson and Robert J. Stanton, Jr.  
*A Miocene marine fauna from the Conejo Volcanics, Los Angeles County, California*
- 11:20 – 11:40 Carole S. Hickman  
*Biogeographic patterns in Cenozoic microgastropod assemblages*

- 11:40 – 11:45 George L. Kennedy  
*Presentation of the Western Society of Malacologists Award of Honor*
- 11:45 – 12:00 Group Photograph for Paleontology session
- 12:00 – 1:30 P.M. Lunch break
- 1:30 – 1:50 Christy C. Visaggi and Patricia H. Kelley  
*Geographic variation in predatory drilling on bivalves across four ecoregions in Brazil: Implications for the fossil record*
- 1:50 – 2:10 Lindsey T. Groves  
*New species of Paleogene cypraeoideans (Mollusca: Gastropoda) from the Pacific Slope of western North America*
- 2:10 – 2:30 Lindsey T. Groves, Harry F. Filkorn and John M. Alderson  
*A new species of Late Cretaceous cypraeid from the Santa Ana Mountains, Orange County, California*

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CONTRIBUTED PAPERS

- 2:30 – 2:50 Joshua P. Lord  
*Redefining size: Impact of allometric relationships on modeling indeterminate growth, with a focus on chitons*
- 2:50 – 3:20 Break
- 3:20 – 3:40 Stephanie L. Schroeder  
*Fight or flight: Lottia gigantea agonistic encounters*
- 3:40 – 4:00 Laney M. Whitlow and Douglas J. Eernisse  
*Shell geometry and plasticity in the surfgrass limpet, Lottia paleacea, and their effects on reproductive life history traits*

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MONDAY

28 June 2010

CASA REAL

8:40 A.M. CONTRIBUTED PAPERS ON TERRESTRIAL  
AND FRESHWATER MOLLUSKS

- 8:40 – 9:00 G. Thomas Watters  
*Why are freshwater mussels so big? Size, reproduction, and the evolution of the Unioniformes*

- 9:00 – 9:20 Daniel L. Graf and Anthony Geneva  
*Coelatura and the monophyly of the Unionidae (Bivalvia: Unionoida)*
- 9:20 – 9:40 Marian E. Havlik  
*Effects of the August 2007 flood on translocated mussels, South Fork of the Zumbro River, Rochester, Minnesota, August 2008*
- 9:40 – 10:00 Nathan V. Whelan  
*Life history of Leptoxis (Gastropoda: Pleuroceridae)*
- 10:00 – 10:20 Break
- 10:20 – 10:40 Edna Naranjo García  
*New records of land mollusks from southeastern Selva Lacandona, Chiapas, México*
- 10:40 – 11:00 Gary Rosenberg and Makiri Sei  
*Phylogenetic analysis of Jamaican Annulariidae (Mollusca: Gastropoda)*
- 11:00 – 11:20 Timothy A. Pearce and Marvin C. Fields  
*Carnivore bites the dust: Land snail Ancotrema hybridum is A. sportella*
- 11:20 – 11:40 John B. Burch, Taehwan Lee and John L. Keebaugh  
*Comparative morphology of Physa (Haitia) natricina Taylor 1988, an endangered freshwater snail*
- 11:40 – 12:00 Janet L. Leonard, John S. Pearse, Sanne Helsen, Natalie Van Houtte, Karin Breugelmans, Kurt Jordaens and Thierry Backeljau  
*Evidence for rapid evolution with diversification of sexual behavior in the genus Ariolimax (Gastropoda: Stylommatophora)*

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12:00 – 1:30 P.M. Lunch break

#### CONTRIBUTED PAPERS

- 1:30 – 1:50 Ana K. Celis Hernández, Carlos Figueroa Beltrán and Miguel A. Téllez Duarte  
*Importance and vulnerability of archaeological shell middens in Baja California: The cases of San Quintin and the Upper Gulf*
- 1:50 – 2:10 Deborah V. Roman  
*Case studies in the confounding factors involved in appropriate shell specimen identifications from cultural middens: Recommendations for future amelioration of such problems*
- 2:10 – 2:30 Elia Lemus Santana and Laura Sanvicente Añorve  
*Distribution and abundance of holoplanktonic mollusk assemblages from the southern Gulf of Mexico*

- 2:30 – 2:50 Jazmín D. Ortigosa Gutiérrez, Laura Sanvicente Añorve, Elia Lemus Santana, Juan Lucas Cervera, Vivianne Solís Weiss and Nuno Simões  
***Opisthobranch assemblages in Alacranes coral reef, Yucatan Peninsula, México: A preliminary approach***
- 2:50 – 3:10 Eric E. Gonzales and Daniel S. Rokhsar  
Introduction to evening workshop on: ***Molluscan Genomics Workshop: Seq-based genomics for organismal biology***
- 3:10 – 3:30 Break
- 3:30 – 5:00 Posters available for study
- 5:00 – 6:00 Dinner break
- 6:30 – 9:00 Eric E. Gonzales and Daniel S. Rokhsar  
Evening workshop: ***Molluscan Genomics Workshop: Seq-based genomics for organismal biology***  
Cuicacalli Halll, Seminar Rooms A+B

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**TUESDAY**

**29 June 2010**

**BACKDOOR**

- 8:20 A.M. AMS SYMPOSIUM:  
MOLLUSCAN BIOGEOGRAPHY:  
PERSPECTIVES FROM THE PACIFIC OCEAN
- 8:20 – 8:30 Peter B. Marko  
***Opening remarks and introduction***
- 8:30 – 9:00 Suzanne Williams  
***Effect of geography, tectonics, ecology and glacio-eustatic processes on speciation of marine intertidal gastropods***
- 9:00 – 9:30 Alan J. Kohn  
***Life history and tropical marine biogeography in the light of phylogeny***
- 9:30 – 10:00 Peter B. Marko  
***Pleistocene glaciation, biogeographic dynamics, and evolutionary responses of Eastern Pacific molluscan assemblages***
- 10:00 – 10:30 Break
- 10:30 – 11:00 David K. Jacobs  
***When to infer fight in molluscs? – Cryptic taxa in the trematode *Parorchis*, the gastropod *Cerithidea* and the bivalve “*Transennella*”***

- 11:00 – 11:30 Cynthia D. Trowbridge, Y. M. Hirano and Y. J. Hirano  
*Biogeography of North Pacific sacoglossan opisthobranchs*
- 11:30 – 12:00 Christine E. Parent  
*Ecological and evolutionary determinants of island biogeography of land snails*
- 12:00 – 1:30 P.M. Lunch break
- 1:30 – 2:00 Thomas F. Duda, Jr., Marielle Terbio, Gang Cheng, Semoya Phillips,  
Dan Chang and David W. Morris  
*Patterns of population structure and demography in Conus*
- 2:00 – 2:30 Hans Bertsch  
*Provincial-level relationships and feeding biogeography of Northeast Pacific  
opisthobranchs: Taxonomic vs. network biodiversity analyses*
- 2:30 – 3:00 Douglas J. Eernisse  
*Parapatric sibling species pairs in chitons and limpets: Do they help explain  
impressive diversification along the shores of western North America?*
- 3:00 – 3:05 Alan J. Kohn  
*Closing remarks*
- 3:05 – 3:30 Break and GROUP PHOTOGRAPH
- 3:30 – 5:00 Posters available for study
- 5:00 – 6:00 Dinner break
- 6:30 – 9:00 AMS & WSM AUCTION and reprint sale  
Cuicacalli Hall, Seminar Rooms A+B

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**WEDNESDAY**

**30 June 2010**

**CASA REAL**

- 9:00 A.M. CONTRIBUTED PAPERS ON CHITONS AND OTHERS
- 9:00 – 9:20 Iker Irisarri, Douglas J. Eernisse and Rafael Zardoya  
*Major branch swapping in the placement of *Cryptochiton* and *Plaxiphora*  
within *Acanthochitonina* (Mollusca: Polyplacophora)*
- 9:20 – 9:40 Ronald Cesar Zepeta Vilchis and Adriana Reyes Gómez  
*Morphometric analysis and diversity of Chitons from Oaxacan Coast*



- 9:40 – 10:00 Lizeth Galeana Rebolledo, Rafael Flores Garza, Sergio García Ibáñez,  
Pedro Flores Rodríguez, Carmina Torreblanca Ramírez, Salvador Ramírez  
Salazar, Arcadio Valdés González, and Domingo G. Arana Salvador  
***Polyplacophora community in the rocky middle intertidal zone of Acapulco,  
Guerrero, México***
- 10:00 – 10:20 Break
- 10:20 – 10:40 Sergio García Ibáñez, Rafael Flores Garza, Pedro Flores Rodríguez,  
Arcadio Valdés González, Francis G. Olea de la Cruz, Francisco Javier  
Valencia Santana and Domingo G. Arana Salvador  
***Chitons: Acapulco's gourmet delight***
- 10:40 – 11:00 Rebeca Vásquez Yeomans and Jorge Cáceres Martínez  
***Parasites of the clam *Chione fluctifraga* cultured in Bahía San Jorge,  
Sonora, Mexico***
- 11:00 – 11:20 Jorge Cáceres Martínez and Rebeca Vásquez Yeomans  
***Histopathological alterations of the Pacific oyster *Crassostrea gigas* associated  
with algal blooms in Northwest Mexico***
- 12:00 – 1:30 Lunch break

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**WEDNESDAY**

**30 June 2010**

**BACKDOOR**

- 9:00 A.M. CONTRIBUTED PAPERS: THE TROPICAL EASTERN PACIFIC
- 9:00 – 9:40 Hans Bertsch and Rosa del Carmen Campay  
***Biodiversity 2010 Millennium goals: Marine resources and conservation issues  
in Northwest México***
- 9:40 – 10:00 Meredith R. Raith, Danielle C. Zacherl and Douglas J. Eernisse  
***Phylogenetic relationships among *Ostrea* species in the Gulf of California***
- 10:00 – 10:20 Break
- 10:20 – 10:40 Jennifer K. Hofmeister, Richard E. Ross and Roy L. Caldwell  
***Observations of mating behavior in the lesser Pacific striped octopus,  
*Octopus chierchiae* (Jatta, 1889)***
- 10:40 – 11:00 Jean S. Alupay, Richard E. Ross and Roy L. Caldwell  
***Growth and development in the lesser Pacific striped octopus,  
*Octopus chierchiae* (Jatta, 1889)***

- 11:00 – 11:20 Scott Cassell, Tom Loomis, and Christopher Kitting  
***Feeding and other behavior of Humbolt Squid in Bahía de Los Angeles, Sea of Cortez, Baja California***
- 11:20 – 11:40 Esteban Fernando Félix Pico, Mauricio Ramírez Rodríguez, Martín Hernández Rivas and Jorge López Rocha  
***Population structure, growth and production of the mangrove black ark *Anadara tuberculosa* (Bivalvia: Arcidae) from Ensenada de La Paz, Baja California, México***
- 11:40 – 12:00 Carmina Torreblanca Ramírez, Rafael Flores Garza, Pedro Flores Rodríguez, Sergio García Ibáñez, Arcadio Valdés González, Lizeth Galeana Rebolledo and Domingo G. Arana Salvador  
***Gastropod and bivalve community diversity in the rocky middle-intertidal zone of Acapulco, Guerrero, México***
- 12:00 – 1:30 Lunch break
- 1:30 – 3:00 Poster session; presenters will be available for discussion.
- 3:00 – 3:30 Refreshments
- 3:30 – 4:30 General business meetings, AMS (Backdoor), WSM (Casa Real)
- 4:30 – 6:00 Happy Hour in Old Town San Diego
- 6:30 – 9:00 Closing Dinner at Casa Guadalajara Restaurant, Old Town San Diego

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## POSTER ABSTRACTS

Posters will be up for the entire meeting. Posters applicable to certain sessions will be in the back of that room during that session, but will be returned to Casa Real for the remainder of the meeting. Poster presenters are requested to stand by their posters on Wednesday, June 30, from 1:30 to 3:30, to answer questions.

Orso Angulo and Gerado Aceves Medina

***Holoplanktonic Mollusca in the Gulf of California, a model applied to biogeography***

Rüdiger Bieler, Paula M. Mikkelsen, David I. Jablonski, Scott J. Stepan, John P. Huelsenbeck, André F. Sartori, Rafael Robles, Adam Tomašových, Jan Johan ter Poorten, Nathanael Herrera and Nick Matzke

***Bivalves in time and space (BiTS): Testing macroevolutionary methods against the bivalve fossil record***

Jorge Cáceres Martínez and Rebeca Vásquez Yeomans  
***Crystal formation in the connective tissue between the inner and outer gonad walls of the red abalone *Haliotis rufescens****

Jorge Cáceres Martínez and Rebeca Vásquez Yeomans  
***Histopathological analysis of the Pacific oyster *Crassostrea gigas* collected during an episode of mollusk mortality in Sinaloa***

G. G. Cota Hernández, Felipe N. Melo Barrera and M. T. Villalejo Fuerte  
***“Aging improvement”: *Spondylus calcifer****

María Esther Diupotex Chong and E. Baqueiro Cardenas  
***Methods for the cytogenetic study in shellfish***

Logan D. Froman and Douglas J. Eernisse  
***Is a newly discovered chiton brooder on Santa Catalina Island an undescribed species?***

Iris García Tello and M. Martha Reguero Reza  
***Gastropods from Acapulco Bay and La Roqueta Island, Guerrero, Mexico (Preliminary results)***

Chrystal D. Johnson, Brenton T. Ferguson and Douglas J. Eernisse  
***How the southern shield limpet’s rocky journey leads to a mid-life crisis***

Berenice Martínez Vázquez, Pedro Flores Rodríguez, Rafael Flores Garza, Sergio García Ibáñez, Arcadio Valdés González and Domingo G. Arana Salvador  
***Opisthobranchia (Mollusca, Gastropoda) diversity at Acapulco and Puerto Marquez Bays, Guerrero, México***

Elizabeth L. Mihalcik and D’Angelo Whitehead  
***The monitoring of chemical and physical variables affecting *Elimia albanyensis*, a pleurocerid snail endemic to the Flint River in Albany, Georgia***

Fabio Moretzsohn, John W. Tunnell, Jr., Jorge Brenner and Thomas Shirley  
***Gulf of Mexico: Pre-oil spill biotic baseline***

Francis G. Olea de la Cruz, Sergio García Ibáñez, Pedro Flores Rodríguez, Rafael Flores Garza, Arcadio Valdés González, Francisco Javier Valencia Santana and Domingo G. Arana Salvador  
***Furtive catch of *Chiton articulatus* Sowerby in Broderip & Sowerby, 1832 (Polyplacophora) at Acapulco, Guerrero, México: A case study***

Jazmín D. Ortigosa Gutiérrez, Nuno Simões, Laura Sanvicente Añorve, Juan Lucas Cervera and Vivianne Solís Weiss  
***Opisthobranch fauna of Alacranes coral reef, Yucatan Peninsula, México***

Rocío Parra Laca, Rebeca Vásquez Yeomans and Jorge Cáceres Martínez  
***Identity confirmation of the turbellarian *Urastoma cyprinae* parasite of the Mediterranean mussel *Mytilus galloprovincialis* by molecular genetics***

Charles L. Powell, II and Carol J. Stadum  
***Unique middle Miocene limestone deposits assigned to the “Topanga” Formation in southern Orange County, California: Its molluscan fauna and geology***

Arturo Tripp Quezada, J. Borges Souza and A. Tripp Valdez  
***Diversity of soft bottom molluscs from Isla Santa Catalina, Gulf of California***

Brian Urbano Alonso and D. Piñero  
***Cerithium maculosum and Cerithium adustum: The unsolved problem***

Rebeca Vásquez Yeoman and Jorge Cáceres Martínez  
***Analysis of a mortality episode of cultured red abalone *Haliotis rufescens* associated with the presence of *Xenohaliotis californiensis* and *Pseudoklossia* (= *Margolisiella*) *haliotis****

Mónica Nurenskaya Vélez Arellano, Federico Andrés García Domínguez, and Esteban Fernando Félix Pico  
***Annual reproductive cycle for female *Chiton virgulatus* Sowerby, 1840 in Bahía de La Paz, Baja California Sur, México***

Jann E. Vendetti  
***Cataloging diversity in the Sacoglossa: Documenting species through the Encyclopedia of Life***

G. Thomas Watters, T. Gibson, C. B. Kelly, K. Kuehnl, M. Kibbey, K. Harraman, C. Lawlis and H. Albin  
***Recovering the Riffleshell: The propagation and translocation of a federally endangered freshwater mussel to Ohio***