



## Sunday, June 24, 2012

### Arrival

12:00-6:00PM Meeting registration at Porter College  
 12:00-3:00PM Housing check-in at Conference Office in College 8  
 2:00-5:00PM Ice-cream Social at Porter College  
 3:00-6:00PM Housing check-in outside I lounge at Porter College  
 6:00PM Dinner

7:30PM PUBLIC LECTURE: “Launching a Major Biodiversity Expedition Within a 21st Century Context”  
 Terrence Gosliner, California Academy of Sciences; Media Theater Lecture Hall M110 Theater Arts Center

### General Information

Room 252: Conference office, etc.  
 University meal times: 7:30 AM breakfast; 12:45 PM lunch; 6 PM dinner

## Monday, June 25, 2012

Symposium: History of NE Pacific Malacology (H. Bertsch organizer and chair) Room 250	International Workshop on Opisthobranchs Room 240 A. Valdés, chair
<b>8:30AM Announcements</b>	
8:35AM Ancient Mother-of-Pearl Breastplates from Ensenada de Muertos, Baja California Sur, México, by <b>Cáceres Martínez, CJ</b> and Rosales López, A	8:35AM Systematics and phylogeny of <i>Favorinus</i> , a clade of specialized predatory nudibranchs, by <b>West, N</b> and Gosliner, TM
	8:55AM A report on Richard Willan's Nudibranch Workshop held at Lissenung Island Resort, New Ireland, Papua New Guinea March 10 thru the 26th of 2012, by <b>Miller, M</b>
9:15AM The history of marine bivalve research in the Panamic Province, by <b>Coan, EV</b> and <b>Valentich-Scott, P</b>	9:15AM Diversification of filter-feeding nudibranchs: Two remarkable new species of <i>Melibe</i> (Opisthobranchia: Tethyiidae) from the tropical western Pacific, by <b>Gosliner, TM</b> and Pola, M
	9:35AM Systematics, biogeography and speciation of the deep-sea genus <i>Scaphander</i> (Gastropoda, Cephalaspidea) in the Atlantic Ocean, by <b>Eilertsen, MH</b> and E. Malaquias, MA
9:55AM Sorting out the <i>Siphonaria</i> : Reviving old names for DNA-delimited siphon limpets, by <b>Eernisse, DJ</b>	9:55AM New data about the salivary glands of carnivorous and herbivorous cephalaspideans (Euopisthobranchia), by <b>Lobo da Cunha, A</b> , Oliveira, E, Alves, A and Calado, G
	10:15AM Temporal dynamics of <i>Cylichna cylindracea</i> (Pennant, 1777) in estuarine muddy bottoms, by <b>Aneiros, F</b> , Moreira J and Troncoso, JS
<b>10:35AM Coffee Break</b>	
11:05AM Plants & Vertebrates, Bugs & Slugs: The Crossing Geographic and Taxonomic Paths of Five Naturalists, by <b>Bertsch, H</b>	11:05AM Population genetics of <i>Haminoea (Haloa) japonica</i> Pilsbry, 1895, a widespread non-indigenous sea slug (Mollusca: Opisthobranchia) in North America and Europe, by <b>Hanson, D</b> , Hirano, Y and Valdés, A

	11:35AM A tale from a hyperdiverse group of cephalaspidean gastropods in Scandinavia: The family Philinidae, by <b>Ohnheiser, LT</b> and <b>E. Malaquias, MA</b>
11:45AM What's up in the Chukchi Sea: New and old images of Alaska's Arctic molluscan fauna, by <b>Foster, NR</b>	11:45AM Phylogeography of the gastropod <i>Bulla occidentalis</i> in the tropical western Atlantic Ocean, by <b>Aarø, J, Willassen, E</b> and <b>E. Malaquias, MA</b>
	12:05PM Systematic revision and anatomical review of <i>Chelidonura</i> species (Cephalaspidea: Gastropoda), by <b>Zamora, A</b> and <b>E. Malaquias, MA</b>
<b>12:35PM Lunch</b>	
<b>WSM – Contributed Papers Room 250 N. Foster, chair</b>	<b>IWO Room 240 J. Troncoso, chair</b>
2:00PM Molecular regulation of chiton radula biomineralisation, by <b>Brooker, LR, Gardner, L, Adamson, K, Shaw, JA</b> and <b>Elizur, A</b>	2:00PM Opisthobranchs of Mexico, what we don't know, by <b>Ortigosa, D</b>
2:20PM Variations on calcification micro bands formed during the shell growth of <i>Pteria sterna</i> juvenile, by <b>Cáceres Martínez, CJ, Ramos Salcedo, MN</b> and <b>Cáceres Puig, JI</b>	2:20PM Ecological network analysis of the feeding biogeography of nudibranchs: Inter- and intra-provincial variations, by <b>Bertsch, H</b>
2:40PM Community structure of gastropods from Isla Verde, Veracruz, Mexico by <b>Aguilar-Estrada, LG, Ortigosa, D, Urbano, B</b> and <b>Reguero, M</b>	2:40PM Phylogenetic placement of the enigmatic opisthobranch genera <i>Doridoxa</i> and <i>Bathydoris</i> within Nudibranchia, by <b>Mahguib, J</b>
3:00PM Spatio-temporal variability of some shallow-bottom macroinvertebrates (Gastropoda, Bivalvia and Cephalopoda) from Espíritu Santo Archipelago, Baja California Sur, Mexico, by <b>Félix-Pico, EF, Holguín-Quifones, OE</b> and <b>Torres GM</b>	3:00PM Resolving a thirty-year-old hypothesis: Is <i>Berghia</i> a junior synonym of <i>Spurilla</i> ? A morphological and molecular approach, by <b>Carmona, L, Pola, M, Gosliner, TM</b> and <b>Cervera, JL</b>
3:20PM Gastropods of the Acapulco Bay, Guerrero, Mexico: Systematics and ecological indexes, by <b>García Tello, I</b> and <b>Reguero M</b>	3:20PM Systematics of <i>Gymnodoris</i> : Investigating a genus of predators, cannibals and a parasite, by <b>Knutson, V</b> and <b>Gosliner, TM</b>
<b>3:40PM Coffee Break</b>	
4:10PM Class Scaphopoda in México, by <b>Saldaña-Monroy, E</b> and <b>Urbano, B</b>	4:10PM The <i>Doto coronata</i> species complex, by <b>Shipman, C</b> and <b>Díaz-Agras, G</b>
4:30PM Ecology and nutrient excretion rates of large, native unionid mussel, <i>Anodonta</i> , coexisting with invasive <i>Corbicula</i> clams, in a San Francisco reservoir by <b>Kolosovich, AS</b> and <b>Kitting, CL</b>	4:30PM Population ecology of <i>Cuthona nana</i> Alder & Hancock, 1842 (Gastropoda; Nudibranchia; Aeolidina) at Ría de Ferrol (Galicia, NW Iberian Peninsula): Preliminary results, by <b>Abad, M, Urgorri, V, Díaz-Agras, G, Moreira, J, García-Regueira, A, Tato, R, Candás, M, Lucas, Y</b> and <b>Cunha, X</b>
4:50PM Pearl Oysters ( <i>Pinctada</i> ) of Midway Atoll (Northwestern Hawaiian Archipelago) by <b>McCully, K.</b> and <b>Potts, D.</b>	4:50PM A colorful question: The chromodoridid ' <i>Felimida clenchi</i> ' species complex investigated through COI, by <b>Padula, V, Ardila, N, Camacho-García, Y, Malaquias, M, Stöger, I, Cervera, JL, Schrödl, M</b>
<b>5:10PM WSM Executive Committee meeting Room 252</b>	
<b>6:00PM Dinner</b>	
<b>7:30PM Poster Session and Reception Porter Dining Hall</b>	

**Tuesday, June 26, 2012**

<b>WSM – Contributed Papers Room 250 W. Enright, chair</b>	<b>IWO Room 240 M. Malaquias, chair</b>
<b>8:30AM Announcements</b>	
8:35AM Mollusks from the deep-water Monterey Formation (Middle to Late Miocene) collected along Arroyo Seco, Monterey County, California, by <b>Powell, II, CL</b> and Thompson, W	8:35AM Extreme variation questions the ecological and evolutionary roles of color pattern in a shallow water species of opisthobranch mollusk, by <b>Valdés, A</b> , Ornelas-Gatdula, E and DuPont, A
8:55 AM Different modes for different folks: An invasive gastropod and a sulfur oxidizing bivalve around two San Diego sewage outfalls, by <b>Enright, W</b>	8:55AM What is <i>Spurilla neapolitana</i> ? An new answer to an old question, by <b>Carmona, L</b> , Pola, M, Gosliner, TM and Cervera, JL
<b>Symposium: Terrestrial Gastropod (JL Leonard and JS Pearse, organizers; JS Pearse, chair)</b>	
9:15AM Are temperate land snails susceptible to climate change through reduced ranges upward? A Pennsylvania example, by <b>Pearce, TA</b> and Paustian, ME	9:15AM Family matters: the first molecular phylogeny of Onchidorididae (Mollusca, Gastropoda, Nudibranchia), by <b>Hallas, JM</b> and Gosliner, TM
	9:35 Are siphon limpets basal pulmonates or stem opisthobranchs? Using combined molecular data sets to resolve difficult phylogenies, by <b>White B</b> and Eernisse DJ
9:55AM Update on the terrestrial mollusks of Chiapas, Mexico, by <b>Naranjo-García, E</b>	9:55AM Two cryptic sympatric species of <i>Costasiella</i> in the Bahamas evolved allopatrically, by <b>Espinoza, ER</b> and Valdés, A
	10:15AM A four-gene molecular phylogeny of the Sacoglossa reveals rampant polyphyly at generic and family levels, and an overly conservative taxonomy at the species level, by <b>Krug, PJ</b> , Vendetti, JE and Trowbridge, CD
<b>10:35AM Coffee Break</b>	
11:05AM The mating behaviour of <i>Veronicella sloanii</i> (Cuvier, 1817) in Barbados, by Clarke, N and <b>Fields, A</b>	11:05AM Traditional taxonomic groupings mask evolutionary history: A molecular phylogeny and new classification of the chromodorid nudibranchs, by <b>Johnson, RF</b> and Gosliner, TM
	11:25AM No molecular support for a <i>Doriopsilla areolata</i> Bergh, 1880 (Mollusca: Opisthobranchia) subspecies scheme in the eastern Atlantic Ocean by <b>Goodheart, J</b>
11:45AM How high the diversity? Land mollusk discoveries in the Pacific Northwest, U.S.A., by <b>Roth, B</b>	11:45AM A diachronic perspective on the localization of defensive metabolites in chromodorid nudibranchs, by Mollo, E and <b>Ghiselin, MT</b>
	12:05PM The contributions of Charles H. O'Donoghue to opisthobranch research, by <b>Millen, S</b>
<b>12:25PM Lunch</b>	

<b>Symposium: Terrestrial Gastropod (JL Leonard and JS Pearse, organizers; JS Pearse, chair)</b>	<b>IWO Room 240 M. Ghiselin, chair</b>
2:00PM A reassessment of the phylogeny of Polygyridae based on analyses of a multigene data set, by <b>Anderson, FE</b> , Defreitas, N, Minton, R, Pearce, TA, Perez, KE and Slapcinsky, J	2:00PM Opisthobranch gastropods observed by James R. Lance in San Diego, 1953 – 2001, by <b>Goddard, JHR</b>
	2:20PM History of opisthobranch investigations along the coasts of the Baja California Peninsula / <i>Historia de las Investigaciones sobre Opisthobranchios a lo largo de las Costas de la Península de Baja California</i> , by <b>Bertsch, H</b>
2:40PM Molecular systematics of banana slugs (Stylommatophora: Arionidae: <i>Ariolimax</i> ), by <b>Elejalde, MA</b> , Breugelmans, K, Jordaens, K, Pearce, JS, Leonard, JL and Bacheljau, T	2:40 PM Slugging: pole to pole <b>Lee, K</b>
	3:00 PM Distribution and abundance of holoplanktonic mollusks from the Gulf of Tehuantepec during July 2007, by <b>Moreno-Alcántara, M</b> , Aceves-Medina, G and Angulo-Campillo, O
3:20PM Inferring species limits in facultatively autogamous slugs and snails: a problem with too many solutions? by <b>Bacheljau, T</b> , Breugelmans, K, Elejalde, A, Prevot, V and Jordaens K	
<b>4:00 PM Coffee Break</b>	
<b>4:30PM WSM Business Meeting Room 240</b>	
<b>7:00PM Conference Dinner Porter Dining Hall</b>	

**Wednesday, June 27, 2012  
Check-out, Departure and Paleontology Field Trip**

7:30AM Breakfast (pick-up sack lunches)

9:30AM Leave for Paleontology field trip (about 2 hrs driving time, see following pages; arrange your own transportation)

Housing check-out from College 8 office

12:45 Lunch

## **WSM 2012 Field Trip – June 27, 2012**

### **Late Miocene deep-water mollusks from the Monterey Formation exposed along Arroyo Seco, Monterey County, central California.**

We will meet at 45078-45080 Arroyo Seco Road (County Road G16), outside of Greenfield at noon Wednesday June 27. Directions to the site can be found by plugging the address into Google maps or using [findlatitudeandlongitude.com](http://findlatitudeandlongitude.com) (latitude N 36° 15' 59.3036", longitude W 121° 21' 33.6882"). Parking is limited so please car-pool, and parking is alongside the highway so be careful.

Upon arrive there will be a brief safety discussion and then people can collect these unusual fossils. Bring rock hammers, collecting bags, and newspaper to wrap the fossils. A discussion of the fossils, paleoenvironment and age of the outcrop will be provided in a small guidebook. The cost for attending this field trip is \$10 used to defer production of the guidebook. Please register early.

This project is a cooperative research project with several middle and high schools in Santa Cruz and Santa Clara Counties and their teacher and many of the students will be available for questions and discussions at the fossil site.



## Paleontology Field Trip

### *Suggested routes*

1. 79.3 mi, 1 hour 44 mins

CA-1 S/Cabrillo Hwy and US-101 S

2. 92.6 mi, 2 hours 15 mins

CA-1 S/Cabrillo Hwy and W Carmel Valley Rd/Co Rd G16

Driving directions to 45080 Arroyo Seco Rd, Greenfield, CA 93927

from Heller & College 8/Porter  
(UCSC)

1. Head **west** on **Heller Dr** toward **Koshland Way**

0.5 mi

2. Turn left onto **Empire Grade/High St**  
Continue to follow High St

1.1 mi

3. Turn right onto **Bay St**

1.1 mi

4. Turn left onto **Mission St**

0.9 mi

5. Turn left onto **CA-1 S/Cabrillo Hwy**

26.8 mi

6. Turn left onto **Merritt St**

1.8 mi

7. Continue onto **CA-183 S/Castroville Rd**  
Continue to follow CA-183 S

7.4 mi

8. Turn right onto **Salinas St**

0.5 mi

9. Turn left onto **John St**

0.8 mi

10. Take the ramp onto **US-101 S**

26.4 mi

11. Take exit **301** for **Arroyo Seco Road**

0.1 mi



**12.** Keep right at the fork, follow signs for **Arroyo Seco Rd** and merge onto **Arroyo Seco Rd**  
Destination will be on the right

