

21st-Century Naturalists:

integrating pattern and process to understand biodiversity

JANUARY 12-15, 2014

ASILOMAR CONFERENCE CENTER,
PACIFIC GROVE, CA

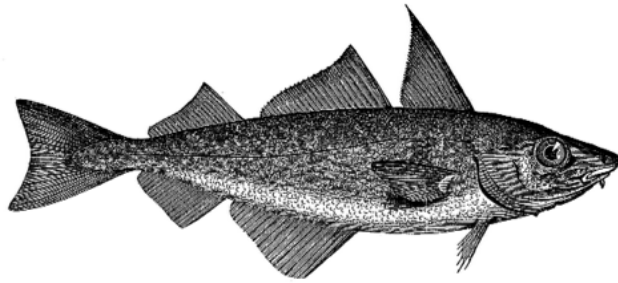
A CONFERENCE OF THE
AMERICAN SOCIETY OF NATURALISTS





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WELCOME

On behalf of the Executive Council of the American Society of Naturalists (ASN), I'd like to welcome you to Asilomar, and to the first independent meeting of the ASN in over 10 years. The ASN has typically met in conjunction with the Society for the Study of Evolution and the Society for Systematic Biology, at what are generally called the 'Evolution Meeting'. However, ASN is about more than just evolution. ASN strives to advance knowledge of unifying biological principles by uncovering processes that generate and maintain patterns of biological diversity. These patterns and processes necessarily involve complex interactions between ecology, evolution, genetics, behavior, and physiology. Consequently, ASN emphasizes the value of interdisciplinary research and collaborations between diverse biologists to achieve "conceptual unification across the biological sciences".

Given ASN's interdisciplinary focus, it seemed important that ASN begin to hold periodic independent meetings that attract a more diverse array of biologists who might not normally cross paths at discipline-specific meetings. The Asilomar meeting was designed to facilitate such interdisciplinary conversations. We hope this meeting will be more than just another venue for presenting research. We want to create a public forum where graduate students, postdocs, and faculty can hold discussions to define new research directions that bridge disciplines. We hope to define and invigorate the ASN and showcase its unique ability to address broad patterns in biology by fusing theory with data, ecology with evolution, and new technological tools with long-standing open questions. In short, we hope to showcase what it means to be a naturalist and researcher in the 21st century.

The Asilomar conference center is an ideal place to hold such a meeting. Situated in the Asilomar State Park on the tip of the Monterey Peninsula, the venue should appeal to ASN members interested in natural history and biodiversity. We hope you will take advantage of the spectacular natural setting to explore the coastline and inland habitats before, during, and after the meeting. The intent is to establish a precedent of holding independent ASN meetings, every few years, in a spectacular natural setting that will appeal to biologists. The conference center itself provides a pleasant and intimate setting for a small conference. We intentionally chose to keep this first ASN meeting small to make it easier for participants to meet new colleagues and establish novel discussions and perhaps collaborations.

The timing of the meeting was chosen to minimize conflict with existing major meetings in evolution, ecology, and behavior, which collectively span much of the summer season. Furthermore, many ASN affiliates have active field research programs, typically in the summer, that conflict with the Evolution or Ecology meetings. By holding this conference in the winter, delicately balanced between the NSF pre-proposal deadline and the start of many universities' spring semesters, we hoped to serve participants who find it difficult to attend summer meetings.

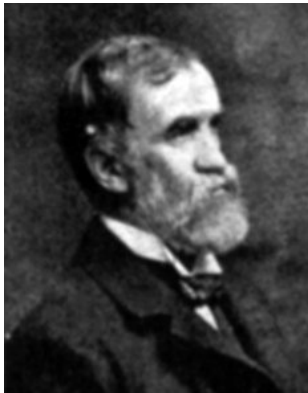
We hope you find the meeting is intellectually stimulating and helpful. If you have any questions or suggestions, feel free to contact the meeting organizers (contact info at the end of this program). We look forward to seeing you again at future ASN meetings, both at Evolution and at future independent conferences.

Sincerely,



Dan Bolnick, Past Secretary of ASN (2010-2012) and Asilomar 2014 Organizer

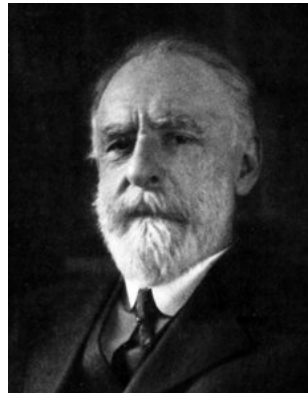
FOUNDERS OF *THE AMERICAN NATURALIST*



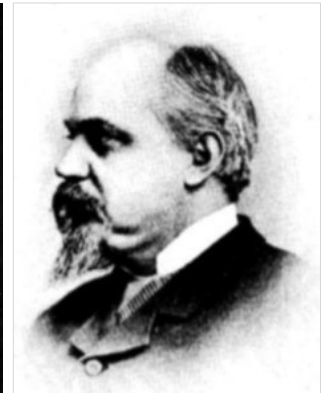
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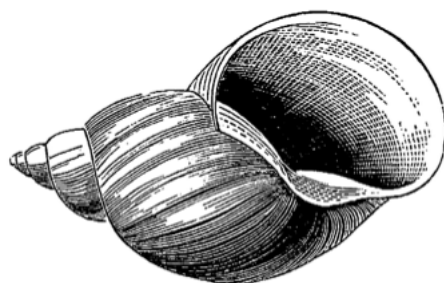
Edward S. Morse



Frederick W. Putnam



Alpheus Hyatt



CONFERENCE SCHEDULE OVERVIEW

The core of the conference is scheduled to run from the morning of January 13, through the evening of January 15, 2014. On the assumption that many participants will arrive the afternoon before the conference begins (on January 12), we are offering an evening lecture on January 12, preceding the start of the main meeting. A schedule outline is provided in the table below, followed by a detailed description of each of the major events.

SUNDAY, JANUARY 12

TIME	EVENT	LOCATION
Morning & Afternoon	Field Trips (contact Becky Fuller, fuller@life.illinois.edu, for field trip details)	Various
6:00 PM	Dinner	Crocker Dining Hall
7:30 PM	Welcome	Chapel
7:45 PM	Evening Special Event: Opening Lecture: Betty Smocovitis, “Naturalizing America: the evolution of the American Society of Naturalists”	Chapel
9:00 PM	Drinks & Poster Viewing	Kiln Room

Tides: Low 1:09 AM | High 7:27 AM | Low 2:53 PM | High 9:35 PM
Sunrise 7:18 AM | Sunset 5:14 PM

MONDAY, JANUARY 13

TIME	EVENT	LOCATION
7:30 AM	Breakfast	Crocker Dining Hall
8:30 AM	Concurrent Sessions	
	Change: Environments	Scripps Room
	Diversity: Origins	Kiln Room
	Interactions I	Chapel
	Adaptation: Genetics	Curlew Room
	Adaptation: Function	Marlin Room
10:10 AM	Coffee Break	Chapel
10:40 AM	Concurrent Sessions, continued	
12:00 PM	Lunch	Crocker Dining Hall
1:00 PM	Symposium 1: Evolution in small spaces: microgeographic adaptation	Chapel
2:40 PM	Coffee Break & Poster Session	Kiln Room
3:30 PM	Symposium 1, continued	
6:00 PM	Dinner	Crocker Dining Hall
7:45 PM	Evening Special Event: President's Debate	Chapel

Tides: Low 1:55 AM | High 8:06 AM | Low 3:29 PM | High 10:12 PM

TUESDAY, JANUARY 14

TIME	EVENT	LOCATION
7:30 AM	Breakfast	Crocker Dining Hall
8:30 AM	Concurrent Sessions	
	Change: Environments	Scripps Room
	Diversity: Origins	Curlew Room
	Diversity: Maintenance	Chapel
	Interactions II	Kiln Room
	Adaptation: Ecology	Marlin Room

9:50 AM	Coffee Break	Chapel
10:30 AM	Concurrent Sessions, continued	
12:00 PM	Lunch	Crocker Dining Hall
1:00 PM	Symposium 2: 21st-century naturalists: insights into classic ecological questions gained from phylogenetic historical approaches	Chapel
2:35 PM	Coffee Break & Poster Viewing	Kiln Room
3:05 PM	Symposium 2, continued	
6:00 PM	Dinner	Crocker Dining Hall
7:45 PM	Evening Special Event: Bonfire Social	Phoebe Hearst Social Hall

Tides: Low 2:37 AM | High 8:42 AM | Low 4:02 PM | High 10:44 PM

WEDNESDAY, JANUARY 15

TIME	EVENT	LOCATION
7:30 AM	Breakfast	Crocker Dining Hall
8:30 AM	Concurrent Sessions	
	Interactions III	Chapel
	Change: Distribution & Abundance	Marlin Room
	Diversity: Maintenance	Kiln Room
	Adaptation: Function	Scripps Room
	Adaptation: Process	Curlew Room
9:50 AM	Coffee Break	Chapel
10:30 AM	Concurrent Sessions, continued	
12:00 PM	Lunch	Crocker Dining Hall
1:00 PM	Symposium 3: New perspectives on niche construction	Chapel
3:05 PM	Coffee Break & Poster Viewing	Kiln Room
3:45 PM	Symposium 3, continued	
6:00 PM	Dinner	Crocker Dining Hall

7:45 PM	Evening Special Event: Open Mic Science	Chapel
7:45 PM	Evening Special Event: Open table discussions on symposium topics	
	Symposium 1: Microgeographic adaptation	Marlin Room
	Symposium 2: Phylogenetic approaches	Scripps Room
	Symposium 3: Niche construction	Curlew Room

Tides: Low 3:15 AM | High 9:16 AM | Low 4:33 PM | High 11:14 PM

THURSDAY, JANUARY 16

TIME	EVENT	LOCATION
7:30 AM	Breakfast	Crocker Dining Hall
Morning & Afternoon	Field trips (contact Becky Fuller, fuller@life.illinois.edu, for field trip details)	Various
12:00 PM	Lunch (free to people staying at Asilomar the night of January 15 th)	Crocker Dining Hall

Tides: Low 3:52 AM | High 9:50 AM | Low 5:02 PM | High 11:44 PM

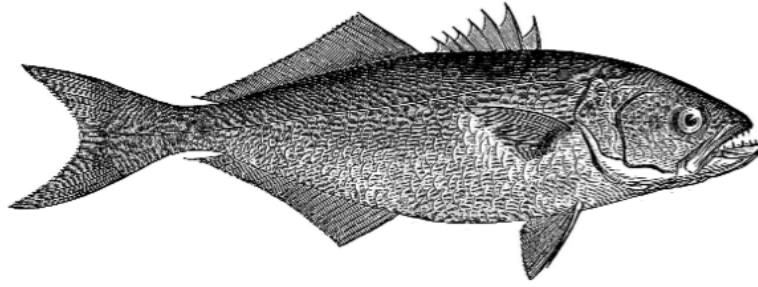
LUNCH EVENTS

EVERY DAY | MONTE CARLO LUNCH

To facilitate discussions between diverse researchers, we are offering the option to participate in Monte Carlo Lunches. Participating attendees will be randomized among tables to facilitate meeting new colleagues, and promote interactions among student and faculty attendees. A number of tables in Crocker Dining Hall will have colored cards on them. As you enter the hall, pick a colored ticket out of the basket by the door and sit at the table with the corresponding colored card. To opt out, just sit at a table without a colored card.

TUESDAY | NSF LUNCH

Join George Gilchrist and other NSF program officers for a Q&A about the current status of NSF programs.



EVENING SPECIAL EVENTS

SUNDAY, JANUARY 12

OPENING LECTURE

Naturalizing America: the evolution of the American Society of Naturalists

Dr. Vassiliki Smocovitis

7:45 PM in the Chapel

This is a historical presentation on the origins and tortuous history of the American Society of Naturalists, the first such organization of life science in the United States that has remained to the present. It tracks the challenges to its original mission of unifying a number of disciplines with the new view of organic evolution in 1867, to the present. The extent to which it has experienced numerous "identity crises" during that long history is assessed, as is its constant reworking of itself from an organization originally focused on supporting the interests of a group of American naturalists to an international interdisciplinary organization known for its emphasis on innovative methodologies and approaches.

Vassiliki Betty Smocovitis is an historian of science with appointments in the Department of Biology and in the Department of History at the University of Florida. She received her PhD in the graduate field of ecology and evolutionary biology and in the Program for the History and Philosophy of Science and Technology at Cornell University. Her interests in the history of modern biological science center on the history of ecology and evolutionary biology, genetics, systematics, especially during the period known as the evolutionary synthesis, and in the development of the botanical sciences in the United States. She has studied the historical origins of the discipline of evolutionary biology and how it was organized in the Society for the Study of Evolution, as well as the origins of the Botanical Society of America, and has been especially interested in how evolution has served as an integrative principle in the post-war biological sciences. She is the author of *Unifying Biology: The Evolutionary Synthesis and Evolutionary Biology* (Princeton: Princeton University Press, 1996). She served as the 16th Distinguished

Alumni Professor at UF, Phi Beta Kappa Visiting Scholar during the year of Darwin in 2009, and has received a number of teaching awards including the Hazen Prize from the History of Science Society. She currently represents Section L, History and Philosophy of Science on the Committee on Council Affairs in the American Association for the Advancement of Science. Website: http://people.biology.ufl.edu/bsmocovi/Bettys_Website/Welcome.html.

MONDAY, JANUARY 13

PRESIDENT'S DEBATE

“This house believes that species richness on continents is dominated by ecological limits.”

Proponent: Dan Rabosky. Seconded by: Allen Hurlbert.

Opponent: Luke Harmon. Seconded by: Susan Harrison.

7:45 PM in the Chapel

To what extent does regional and local diversity depend mostly on time and diversification rate (Wallace's old hypothesis for the latitudinal gradient), or is instead close to an ecological carrying capacity? These issues have recently become much more focused given our improved understanding of biological diversity through time and earth's history, notably paleoclimate. Nevertheless we are far from resolution, and researchers still have strong views.

In this debate, Dan Rabosky and Allen Hurlbert will present the case for ecological regulation, while Luke Harmon and Susan Harrison will argue the non-equilibrium case. The format will roughly follow that of the famous Oxford University debates. Dan will present a prepared 20-minute summary, followed similarly by Luke. Then, there will be opportunity for alternating rebuttals from either side. While flexible, we expect the first rebuttal to last up to 20 minutes from each side, with a second response of up to 10 minutes again from each side. Following this, questions will be thrown open to the audience; each question can be addressed to one or other side, or both, but both sides will be given the opportunity to respond. This is an innovation for the ASN, and if successful we hope to refine the format in future meetings.

Dan Rabosky is Assistant Professor at the University of Michigan. He has worked on Australian lizards and comparative methods, and is well known for his investigations of diversity-dependence in the pattern of lineage splitting in phylogenies. Allen Hurlbert is Assistant Professor at the University of North Carolina, whose research explores broad-scale patterns of diversity and community structure, with an emphasis on North American birds. Luke Harmon is Associate Professor at the University of Idaho. He has worked on Anolis lizards and comparative methods, including evaluation of the correspondence between morphological diversification and lineage diversification, and causes of disparities in clade richness across vertebrates. Susan Harrison is Professor at the University of California, Davis. She works on regional, historical and local drivers of plant richness, focusing especially on the flora of California.

Organized by Trevor Price, ASN President 2014.

TUESDAY, JANUARY 14

BONFIRE SOCIAL

7:45 PM in front of the Phoebe Hearst Social Hall

Join us for drinks and snacks (hot chocolate, s'mores, beer, wine, and non-alcoholic drinks) around a bonfire on the patio in front of the Phoebe Hearst Social Hall. Feel free to bring your own musical instrument. Dress warmly. January temperatures in the Monterey region average highs of 58 degrees F, lows of 44 F. An indoor social will take place in the event of rain. Hot chocolate will be free. There will also be beer, wine, and non-alcoholic beverages available at a cash bar and at a drink-ticket bar.

WEDNESDAY, JANUARY 15

OPEN MIC SCIENCE

7:45 PM in the Chapel

In the spirit of fostering open discussion of new ideas, we will be trying a new type of event. At dinner the final evening there will be a sign-up sheet where attendees can sign up for a 10 minute time slot to participate in "Open Mic Science". The idea is not to present finished work, and not to give a practiced lecture. In the spirit of lab meetings, this is a venue for you to give a casual and unscripted presentation of a new idea, to solicit feedback. A flip-chart will be available for drawing diagrams, but no projectors. Presentations should be brief and open to discussion throughout.

WEDNESDAY, JANUARY 15

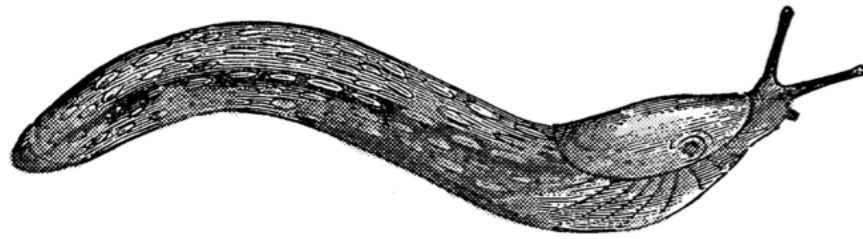
SYMPOSIUM DISCUSSIONS

Microgeographic adaptation: 7:45 PM in the Marlin Room

Phylogenetic perspectives: 7:45 PM in the Curlew Room

Niche construction: 7:45 PM in the Scripps Room

The final evening, after all three symposia have taken place, there will be open discussions focused on the themes of each symposium. The discussions will be moderated by one or more symposium presenters or organizer, but all attendees will be encouraged to participate. This is an opportunity to discuss the state of current research on the topic more generally, and identify key needs and opportunities for future work.



SCHEDULE OF SYMPOSIA

All symposia will be held in the Chapel, with no concurrent sessions, so all participants can attend. Given the number of attendees (200), we expect to completely fill the Chapel (seating 196). Please be considerate and move towards the center of a row, so everyone can find a seat.

MONDAY, JANUARY 13

SYMPOSIUM 1: EVOLUTION IN SMALL SPACES: MICROGEOGRAPHIC ADAPTATION

Local adaptation of populations in response to environmental variation is a foundational research program for evolutionary ecologists working across diverse systems. However, much of this research has focused on macro- and meso- scale variation as it has often been assumed that high rates of gene flow will overwhelm locally adapted gene pools and prevent adaptive divergence at small spatial scales – so-called microgeographic adaptation. Because researchers often select their study sites in a way that reduces or eliminates the possibility of gene flow between populations, the presumption that gene flow would overwhelm natural selection at fine spatial scales has rarely been challenged. Mounting evidence suggests that fine-scale divergence is more widespread in nature than is commonly appreciated. As a result, we are now in a position to examine critically where and to what degree adaptive divergence is occurring at microgeographic scales, and how this fine-scale adaptation can alter the way we think about fundamental processes in ecology and evolution.

Organizer: Jonathan Richardson

1:00 PM	Jonathan Richardson	Evolution in small spaces: microgeographic adaptation in nature
1:10 PM	Sally Otto	Local adaptation when not all is equal: incorporating variability in individual movement and behavior

1:40 PM	Luc de Meester	Local genetic adaptation of <i>Daphnia</i> to ecological gradients at the landscape level, and its link to population genetic as well as metacommunity structure
2:10 PM	Patrik Nosil	Santa Rosalia revisited: why so much evolution at small scales but not a separate species on each bush?
2:40 PM	COFFEE BREAK & POSTER SESSION	
3:45 PM	Mark Urban	Eco-evolutionary dynamics of the finest kind
4:14 PM	Erica Bree Rosenblum	Convergent evolution over the sharp White Sands ecotone: using comparisons among species to understand evolution in small spaces
4:45 PM	Daniel Bolnick	Deep matters: microgeographic clines in stickleback
5:15 PM	David Skelly	A roadmap for investigating microgeographic evolution in nature
5:45 PM	Discussion	

TUESDAY, JANUARY 14

SYMPOSIUM 2: 21ST-CENTURY NATURALISTS: INSIGHTS INTO CLASSIC ECOLOGICAL QUESTIONS GAINED FROM PHYLOGENETIC HISTORICAL APPROACHES

Insights into many classical ecological questions, such as the latitudinal species diversity gradient, what determines the numbers and kinds of species found in communities, and the relative importance of dispersal, abiotic or biotic factors in setting range limits, can be gained through incorporation of historical data, that is, phylogenies. Beyond character mapping and community phylogenetics, phylogenies can deepen our understanding of many underlying mechanisms shaping ecological communities, and point to the inseparable nature of ecology and evolution.

Organizer: Sharon Strauss

1:00 PM	Sharon Strauss	Introduction to the symposium
1:05 PM	Brian Smith	Insights into latitudinal species diversity gradients gained from historical analysis
1:35 PM	Nancy Emery	Species interactions and niche conservatism determine species distributions in vernal pool gradients

2:05 PM	Peter Wainwright	The effect of speciation mode on niche and trait evolution in reef fishes
2:35 PM	COFFEE BREAK & POSTER VIEWING	
3:15 PM	Sharon Strauss	Combining experiments, current observation and history to understand ecological specialization in plants
3:45 PM	Jonathan Davies	Identifying the evolutionary transitions linking phylogenetic diversity and ecosystem function
4:15 PM	Nate Swenson	The idiosyncratic evolutionary imprint on assembly in New Zealand woody plant communities
4:45 PM	Catherine Graham	Species distributions, niches and dispersal limitation are informed by history
5:15 PM	Dan Rabosky	Reproductive isolation, diversity-dependence, and the ecology of speciation
5:45 PM	Discussion	

WEDNESDAY, JANUARY 15

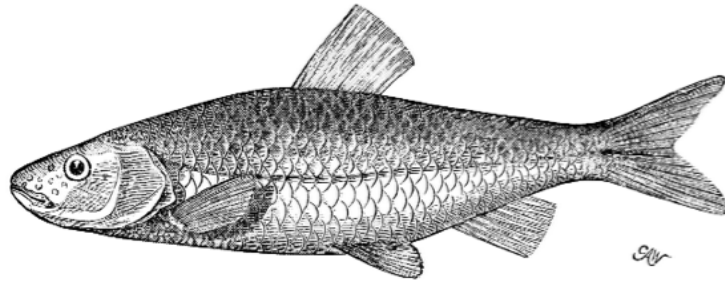
SYMPOSIUM 3: NEW PERSPECTIVES ON NICHE CONSTRUCTION

Niche construction is the process by which organisms, through their traits, determine the environment that they experience. A seemingly simple process, niche construction has diverse and far-reaching implications that bring together ecology, evolution, genetics and development, and are thus potentially of interest to literally everyone at the ASN meeting. Niche construction research is still hindered by lack of integration and unification. Researchers studying, for example, trait-mediated indirect interactions in ecology and genetic variation in animal habitat choice are not necessarily likely to read each other's work; the primary impetus for this symposium is to illustrate how niche construction provides a "conceptual lynchpin" through which aspects of these diverse ecological and evolutionary processes may be considered within a common framework.

Organizer: Julia Saltz

1:00 PM	Julia Saltz	Introduction
1:05 PM	Kevin Laland	Niche construction theory: a practical guide to ecologists
1:35 PM	Emilie Snell-Rood	Niche construction and the evolution of phenotypic plasticity

2:05 PM	Gregory Kohn	Social personality traits and niche picking: how individuals construct their social experience
2:35 PM	Kathleen Donohue	Niche construction through phonological cuing
3:05 PM	COFFEE BREAK & POSTER VIEWING	
3:45 PM	Robert Holt and Mark McPeck	Implications of niche construction for community ecology
4:15 PM	Tom Whitham	Niche construction by foundation tree species: a community genetics approach
4:45 PM	Julia Saltz	Genetic variation in social niche construction: implications for development, genetics and evolution
5:15 PM	Hopi Hoekstra	The genetics of niche construction: burrow building in wild mice
5:45 PM	Discussion	



SCHEDULE OF CONCURRENT SESSIONS

Presentation abstracts are available on the meeting website at <http://w3.biosci.utexas.edu/amnatasilomar/> ordered by the ID in the following table.

MONDAY | SCRIPPS ROOM | CHANGE: ENVIRONMENTS

Session Moderator: TBD

ID	TIME	LAST NAME	FIRST NAME	TITLE
M1	8:30 AM	Schreiber	Sebastian	Evolutionary and ecological consequences of multiscale variation in pollen receipt for seed production
M2	8:50 AM	Zee	Peter	Biodiversity loss following habitat fragmentation is dictated by the relative scale of biotically and abiotically generated environmental heterogeneity
M3	9:10 AM	Newman	Erica	Macroecology meets disturbance ecology
M4	9:30 AM	Lau	Jennifer	Evolution in changing environments: how nitrogen deposition has destabilized the legume-rhizobium mutualism
M5	9:50 AM	Lee	Who Seung	Trade-offs in early life decisions and their long-term effects are driven by patterns of environmental fluctuation
	10:10 AM	COFFEE BREAK		

M6	10:40 AM	Wolkovich	Elizabeth	Coexistence and climate change: the role of temporal-variability in structuring future communities
M7	11:00 AM	Boettiger	Carl	Ecological management for an uncertain world: robust decision theory in face of regime shifts
M8	11:20 AM	McDonough	Caitlin	Science in the attic: studying spring phenology in Northern Maine with a hunting guide's journal
M9	11:40 AM	Boersma	Kate	Biotic and abiotic disturbances have antagonistic effects on fragmented arid-land aquatic communities

MONDAY | KILN ROOM | DIVERSITY: ORIGINS

Session Moderator: Christopher DiVittorio

ID	TIME	LAST NAME	FIRST NAME	TITLE
M10	8:30 AM	Fuller	Becky	Chromosomal rearrangements, adaptation to salinity, and reproductive isolation between two killifish
M11	8:50 AM	Wells	Shana	Evolutionary origins of <i>Salsola ryanii</i> , a novel allopolyploid weed
M12	9:10 AM	Billiard	Sylvain	How ecological processes affect neutral genetic diversity?
M13	9:30 AM	DiVittorio	Christopher	Extremely strong natural selection across a wild sunflower hybrid zone
M14	9:50 AM	Ohlberger	Jan	Adaptive phenotypic diversification along a temperature-depth gradient – an evolutionary model based on laboratory and field data
	10:10 AM	COFFEE BREAK		
M15	10:40 AM	Hovick	Stephen	Simply a numbers game? Disentangling the effects of founder population size and population genetic diversity on colonization success
M16	11:00 AM	Boughman	Jenny	Speciation by divergent sexual selection

M17	11:20 AM	Leal	Manuel	Contributions of brightness and chroma to pattern discrimination in anolis lizards
M18	11:40 AM	Kirkpatrick	Mark	The strength of selection for reinforcement in a wildflower

MONDAY | CHAPEL | INTERACTIONS I

Session Moderator: Leithen M'Gonigle

ID	TIME	LAST NAME	FIRST NAME	TITLE
M19	8:30 AM	White	Alexander	The effects of interspecific competition on range limits along the Himalayan bird diversity gradient - why are there so many fewer birds in the west?
M20	8:50 AM	Trisos	Christopher	The role of species interactions, dispersal and history in determining range extent and occupancy in a neotropical bird family
M21	9:10 AM	M'Gonigle	Leithen	Allee effects and species coexistence in an environment where resource abundance varies
M22	9:30 AM	Rudolf	Volker	Resolving the roles of body size and species identity in driving functional differences
M23	9:50 AM	Anacker	Brian	Phylogenetic signal in plant interactions with neighbors and soil biota: insights from experimental and observational approaches
	10:10 AM	COFFEE BREAK		
M24	10:40 AM	Jones	Andrew	Consumer interaction strength can limit the diversifying effect of intraspecific competition
M25	11:00 AM	Jordan	Lyndon	Reproductive foraging theory: spider males choose mates by selecting among competitive environments
M26	11:20 AM	Wang	Silu	Coevolution of male courtship and sexual conflict characters in mosquitofish
M27	11:40 AM	Zink	Andrew	A general model of parent-offspring conflict over reproductive skew in communal breeders

MONDAY | CURLEW ROOM | ADAPTATION: GENETICS

Session Moderator: Jean Richardson

ID	TIME	LAST NAME	FIRST NAME	TITLE
M28	8:30 AM	Petren	Kenneth	The genomic basis of adaptive trait variation in Darwin's finches
M29	8:50 AM	Stutz	William	Generating local adaptation the hard way: divergent vs. balancing selection on major-histocompatibility genes (MHC) in parapatric populations of threespine stickleback
M30	9:10 AM	Lotterhos	Katie	A more reliable genome scan for local adaptation: WHELK
M31	9:30 AM	Barney	Bryan	Searching for selection at highly local scales – evidence for thermal selection in a high dispersal species
M32	9:50 AM	Vincenzi	Simone	Combining demography with quantitative and population genetics to infer the adaptive potential of small populations
	10:10 AM	COFFEE BREAK		
M33	10:40 AM	Richardson	Jean	A pedigree analysis of heritable components of brood sex ratio in the intertidal copepod <i>Tigriopus californicus</i>
M34	11:00 AM	Rose	Noah	Express yourself: gene expression profiles are highly dependent on individual genotype in corals
M35	11:20 AM	Shuker	David	Next-generation behavioural ecology: sex allocation as a paradigm
M36	11:40 AM	Whitney	Kenneth	Identifying key alleles and traits in adaptive introgression events: insights from experimental evolution in sunflowers

MONDAY | MARLIN ROOM | ADAPTATION: FUNCTION

Session Moderator: Joe Hereford

ID	TIME	LAST NAME	FIRST NAME	TITLE
M37	8:30 AM	Forrestel	Elisabeth	Cross-continental comparison of phylogenetic and functional turnover of grassland communities in response to precipitation
M38	8:50 AM	Vasseur	David	From transient to evolutionary stable states: how does functional diversity impact ecosystem function
M39	9:10 AM	Muir	Christopher	Pore choices: the adaptive significance of stomatal ratio
M40	9:30 AM	Lang	Jenna	TBD
M41	9:50 AM	Van Cleve	Jeremy	Bet-hedging and the evolution of phenotypic plasticity
	10:10 AM	COFFEE BREAK		
M42	10:40 AM	Hereford	Joe	Phenotypic variation and plasticity in a C3-C4 intermediate annual
M43	11:00 AM	Burghardt	Liana	Predicting how genetic and environmental factors influence the environment experienced by plants during reproduction
M44	11:20 AM	Thomson	James	Long-term demography of a long-lived lily: can you grow too big?
M45	11:40 AM	Rosenzweig	Michael	Specific and generic land vertebrate diversities of the Earth's nine zoological regions

TUESDAY | SCRIPPS ROOM | CHANGE: ENVIRONMENTS

Session Moderator: Alan Bergland

ID	TIME	LAST NAME	FIRST NAME	TITLE
T1	8:30 AM	Sheldon	Ben	Adaptive phenological plasticity and the constraints of scale
T2	8:50 AM	Salinas	Santiago	Do longer exposures to high temperature lead to more pronounced transgenerational effects?
T3	9:10 AM	Taylor	Scott	Rapid climate-mediated movement of an avian hybrid zone reveals temporal variation in genomic introgression and selection
T4	9:30 AM	Pinsky	Malin	Effects of climate velocity on fish and fisheries
	9:50 AM	COFFEE BREAK		
T5	10:30 AM	Brown	Simon	Predicting future life histories of ectotherms under climate change
T6	10:50 AM	Donihue	Colin	Anthropogenic impacts on lizard adaptability and ecological dynamics in the Greek Archipelago
T7	11:10 AM	Bay	Rachael	Genomic differences reflect fitness over a small-scale thermal gradient
T8	11:30 AM	Bergland	Alan	Genomic evidence of rapid and stable adaptive oscillations over seasonal time scales in <i>Drosophila</i>

TUESDAY | CURLEW ROOM | DIVERSITY: ORIGINS

Session Moderator: Robert Ricklefs

ID	TIME	LAST NAME	FIRST NAME	TITLE
T9	8:30 AM	Ricklefs	Robert	Dynamics of the regional community
T10	8:50 AM	Oswald	Jessica	The evolution of ecological specialization in birds

T11	9:10 AM	Hembry	David	Evolutionary stability of specialization and its role in diversification in the brood pollination mutualism between leafflowers and leafflower moths
T12	9:30 AM	Weber	Marjorie	Merging phylogenetic and experimental methods to test hypotheses about the evolution of mutualistic defensive traits in plants
	9:50 AM	COFFEE BREAK		
T13	10:30 AM	Mahler	Luke	Alternative paradigms in macroevolutionary models of adaptive radiation
T14	10:50 AM	De Lisle	Stephen	Sexually antagonistic selection drives the diversification of modern amphibians
T15	11:10 AM	Knope	Matthew	Ecological diversification is coupled to body size evolution across bilaterian marine animals

TUESDAY | CHAPEL | DIVERSITY: MAINTENANCE

Session Moderator: Joel Trexler

ID	TIME	LAST NAME	FIRST NAME	TITLE
T17	8:30 AM	Mayfield	Margaret	Pitfalls and opportunities of using phylogenetics and traits to identify drivers of diversity in novel communities
T18	8:50 AM	Whitlock	Michael	Evolution into and out of overdominance: genetic variation and segregation load with stabilizing selection
T19	9:10 AM	Wagner	Catherine	The macroecology and evolution of African cichlid fish biodiversity
T20	9:30 AM	Fukami	Tadashi	Historical contingency in community assembly: the importance of long-term transients to the maintenance of biodiversity
	9:50 AM	COFFEE BREAK		
T21	10:30 AM	Trexler	Joel	Emergent effects of changing ecosystem size on metacommunity structure and system-wide productivity

T22	10:50 AM	Vamosi	Steven	Community phylogenetics: comparing different ways of measuring community structure
T23	11:10 AM	Gomulkiewicz	Richard	Darwin's conundrum revisited: a twist on the relationship between phylogenetic distance and invasibility
T24	11:30 AM	Lampert	Adam	Discrete body-size distributions in ecosystems induced by resonance and singular points

TUESDAY | KILN ROOM | INTERACTIONS II

Session Moderator: Tracy Langkilde

ID	TIME	LAST NAME	FIRST NAME	TITLE
T25	8:30 AM	Resetarits	William	Unveiling cryptic natural history through “experience carefully planned in advance”: chemical camouflage in an aquatic predator
T26	8:50 AM	Langkilde	Tracy	Impacts of invasive species: complex responses of native lizards to novel selective pressures imposed by fire ants
T27	9:10 AM	Frishkoff	Luke	Pruning the tree of life: habitat conversion and agricultural intensification result in loss of avian phylogenetic diversity in tropical countryside landscapes
T28	9:30 AM	Burghardt	Karin	Can plasticity in plant defensive traits mediate nutrient cycling?
	9:50 AM	COFFEE BREAK		
T29	10:30 AM	Humphrey	Parris	The ecology of co-infection: dissecting parasite interactions mediated by host defense signaling
T30	10:50 AM	Sette	Carla	Connecting historical and contemporary disease dynamics in the California slender salamander
T31	11:10 AM	Parker	Ingrid	Numerical rarity and phylogenetic rarity jointly influence disease pressure in plant communities
T32	11:30 AM	Shocket	Marta	Temperature and resource quality regulate seasonal epidemics in a Daphnia-fungal disease system

TUESDAY | MARLIN ROOM | ADAPTATION: ECOLOGY

Session Moderator: Elizabeth Kleynhans

ID	TIME	LAST NAME	FIRST NAME	TITLE
T33	8:30 AM	Duckworth	Renee	Eco-evolutionary dynamics: what are the causal links between population density, natural selection and phenotypic change?
T34	8:50 AM	terHorst	Casey	The relative importance of rapid evolution depends on ecological context
T35	9:10 AM	Patel	Swati	The ecological consequences of the tempo of evolution in intraguild predation communities
T36	9:30 AM	Miller	Thomas	Evolution in response to predation and nutrient pulses within a suite of protozoa competitors
	9:50 AM	COFFEE BREAK		
T37	10:30 AM	Kotler	Burt	Macroevolution meets microecology: intercontinental wide consequences of compromise-breaking adaptations
T38	10:50 AM	Rudman	Seth	Ecological consequences of the evolution of reproductive isolation in threespine stickleback
T39	11:10 AM	Callahan	Benjamin	Niche construction evolves quickly and repeatably in experimental microbial populations
T40	11:30 AM	Kleynhans	Elizabeth	Evolutionary change depends on community context in BioCON, a long-term field study

WEDNESDAY | CHAPEL | INTERACTIONS III

Session Moderator: Kevin Burls

ID	TIME	LAST NAME	FIRST NAME	TITLE
W1	8:30 AM	Akcay	Erol	Mechanisms for cooperating under private information
W2	8:50 AM	Karron	Jeffrey	Multiple mating and male - female conflict in a hermaphroditic plant, <i>Mimulus ringens</i>
W3	9:10 AM	Briggs	Heather	Pollinator traits and community composition interact to shape dynamic responses to single pollinator species losses
W4	9:30 AM	Ries	Leslie	A general mechanistic species distribution model for butterflies: integrating species interactions and climate to understand large-scale distributions
	9:50 AM	COFFEE BREAK		
W5	10:30 AM	Simms	Ellen	Effects of resource enrichment on mutualist inter-generational feedbacks
W6	10:50 AM	Mueller	Ulrich	Efficient evolution of growth-promoting bacterial rhizosphere communities through plant-microbiome co-propagation: a bio-inspired approach copied from fungus-growing ants
W7	11:10 AM	Wagner	Maggie	Natural soil microbial communities alter plant phenology and intensity of selection
W8	11:30 AM	Burls	Kevin	Parasitism and mutualism in a lycaenid butterfly: temporal and geographic variation in parasitoid attack with no evidence for ant protection

WEDNESDAY | MARLIN ROOM | CHANGE: DISTRIBUTION & ABUNDANCE

Session Moderator: Chad Brassil

ID	TIME	LAST NAME	FIRST NAME	TITLE
W9	8:30 AM	Jiang	Yuexin	Does lateral line mediated rheotaxis explain divergent habitat preferences of lake and stream stickleback?
W10	8:50 AM	Richerson	Kate	More than passive drifters: a behavioral model for Antarctic krill (<i>Euphausia superba</i>)
W11	9:10 AM	Lopez Arriaza	Juan	A semiparametric Bayesian approach for estimation of individual growth
W12	9:30 AM	Brassil	Chad	The complications of temporal fluctuations on population dynamics: elevation, depression, and time-lags
	9:50 AM	COFFEE BREAK		
W13	10:30 AM	Clark	Adam	Defining ecosystems by their interactions: using process to demystify pattern
W14	10:50 AM	Rasmussen	David	How much demography can we infer from phylogeny?
W15	11:10 AM	Abu Awad	Diala	The numerical load: understanding the interaction between demography and genetics
W16	11:30 AM	Snyder	Robin	How do we analyze the evolutionary consequences of demographic stochasticity?

WEDNESDAY | KILN ROOM | DIVERSITY: MAINTENANCE

Session Moderator: Stephan Hausch

ID	TIME	LAST NAME	FIRST NAME	TITLE
W17	8:30 AM	Leibold	Mathew	Evolution of niche relations in metacommunities, what role for neutral coexistence?
W18	8:50 AM	Dwyer	John	Climate regulates release from nutrient limitation in diverse annual plant communities

W19	9:10 AM	Whitton	Jeannette	Does reproductive interference limit coexistence? Insight from an asexual complex
W20	9:30 AM	Stump	Simon	Examining the interactions (or lack thereof) between dispersal-limited specialist pathogens and spatial niche partitioning
	9:50 AM	COFFEE BREAK		
W21	10:30 AM	Hausch	Stephen	The ghost of competition last year: rapid coevolution and the coexistence of competing bruchid beetles
W22	10:50 AM	Porter	Stephanie	Constraining host choice reveals natural selection for symbiont cheating in the legume-rhizobium mutualism
W23	11:10 AM	Gilbert	Gregory	Heart rot and the maintenance of rare species in a tropical rain forest
W24	11:30 AM	Hurlbert	Allen	When should species richness be energy-limited and how would we know?

WEDNESDAY | SCRIPPS ROOM | ADAPTATION: FUNCTION

Session Moderator: Simone Des Roches

ID	TIME	LAST NAME	FIRST NAME	TITLE
W25	8:30 AM	Koelle	Katia	Integrating ecology into phylogenetic comparative analysis
W26	8:50 AM	Signor	Sarah	The genetics of convergent evolution
W27	9:10 AM	Ord	Terry	Convergent adaptive evolution in distant phylogenetic lineages
W28	9:30 AM	Pastore	Abigail	A model of trait convergence in coevolving competitors using quantitative genetics
	9:50 AM	COFFEE BREAK		
W29	10:30 AM	Des Roches	Simone	Ongoing natural selection of two rapidly evolving lizard species in White Sands
W30	10:50 AM	Behrman	Emliy	Strong seasonal selection results in rapid life history changes in <i>Drosophila</i>

W31	11:10 AM	Shapiro	Jason	The role of pleiotropy in horizontally transmitted mutualistic symbioses
W32	11:30 AM	Iida	Yoshiko	Linking functional traits, biomass allocation and demography for seedlings across 50 co-occurring subtropical tree species

WEDNESDAY | CURLEW ROOM | ADAPTATION: PROCESS

Session Moderator: Simon Pearish

ID	TIME	LAST NAME	FIRST NAME	TITLE
W33	8:30 AM	Kindsvater	Holly	The evolution of semelparity and egg size
W34	8:50 AM	Labrada-Martagon	Vanessa	Generalized linear models as an explanatory tool of sex steroids, thyroid hormones and their relationships with environmental factors in immature East Pacific green sea turtles
W35	9:10 AM	Mokkonen	Mikael	The roles of sexually antagonistic and frequency dependent selection in a bank vole life-history axis
W36	9:30 AM	Abolins-Abols	Mikus	Shift in a life history trade-off linked with change in hormonal cross-talk and behavioral plasticity
	9:50 AM	COFFEE BREAK		
W37	10:30 AM	Pearish	Simon	Behavioral type - environment correlations in threespined stickleback
W38	10:50 AM	Agashe	Deepa	Connecting the ecology, evolution and behavior of natural populations
W39	11:10 AM	Beckerman	Andrew	Local adaptation and phenotypic plasticity in <i>Daphnia pulex</i>
W40	11:30 AM	McCoy	Michael	Predicting predator diversity effects on ecosystem function

POSTERS

Posters should be put in their designated spot on a poster board in the Kiln Room after the presenter checks in. Most coffee breaks and alcohol service will be in Kiln Room, and presenters can leave their poster up for the duration of the meeting. This way you should be able to show other attendees your poster at any time. Monday afternoon will feature an hour long coffee break during the symposium, when presenters should plan to stand by their poster.

ID	LAST NAME	FIRST NAME	POSTER TITLE
P1	Diepeveen	Eveline	The genetic basis of convergent thick-lipped phenotypes in distantly related cichlid fishes
P2	Harris	David	Generating realistic species assemblies with a partially-observed Markov random field
P3	Clark	Robert	A keystone mutualism between a community of ants and sap-feeders indirectly benefits plants
P4	Travisano	Michael	Big questions in ecology, evolution and behavior
P5	Korb	Julie	Pollinator responses to floral resources and growing season warming in the alpine tundra, San Juan Mountains, Colorado
P6	Nonaka	Etsuko	Phenotypic plasticity can promote sympatric speciation by enhancing positive assortment in mated pairs: a simulation model study
P7	Vizelka	Jason	Effects of closely related bumble bee species on reproductive success and mating patterns in <i>Mimulus ringens</i>
P8	Hallett	Allysa	Competition for pollination between <i>Asclepias verticillata</i> and <i>Monarda fistulosa</i>
P9	Wang	D. Lisa	Is color perceived as a modular or composite trait?
P10	Livingston	George	The effect of disturbance on spatial food webs in heterogeneous microcosm landscapes
P11	Baskett	Carina	Latitudinal variation in pollination-related traits in <i>Phytolacca</i> (pokeweed)
P12	k	Supriya	Sperm competition and sperm evolution in the Old World warblers
P13	Dittmar	Emily	Adaptation to serpentine soil in <i>Leptosiphon parviflorus</i>
P14	Stuart	Yoel	Parallel and non-parallel evolution in populations of three-spine stickleback across 16 lake-stream pairs
P15	Scheiner	Sam	Assessing the frequency of local adaptation and phenotypic plasticity in plants using a Bayesian hierarchical model
P16	Smith	Rosemary	Conceptual models to integrate population dynamics and life history theory (size/number tradeoffs; semeparity/iteroparity) in a population of <i>Nicrophorus</i> beetles facing a changing environment

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AWARDS

The American Society of Naturalists gives out several awards every year, for students (American Naturalist Student Paper Award; Ruth Patrick Student Poster Award), young investigators (Jasper Loftus-Hills Young Investigator Prizes), and senior researchers (Sewall Wright Award, E.O. Wilson Naturalist Award), and the Presidential Award for a best paper published in *The American Naturalist*. As usual, these awards will be presented at the summer joint meeting with the Society for the Study of Evolution and the Society for Systematic Biology.

In addition to the regular ASN awards to be presented at the summer meeting, three awards will be presented at the Asilomar conference:

1. Ed Ricketts Award for an outstanding student oral presentation. In honor of the naturalist and zoologist Ed Ricketts (the model for 'Doc' in Steinbeck's book *Cannery Row*), the ASN will present the winning student with a plaque and \$400 award. When registering a talk, current undergraduate, masters, or PhD students may opt to be considered for this award.
2. Ruth Patrick Student Poster Award for an outstanding student poster. The winning presenter will receive a plaque and \$400 award. When registering a talk, current undergraduate, masters, or PhD students may opt to be considered for this award. This award honors Ruth Patrick, a prominent botanist and limnologist who won the 1996 National Medal of Science.
3. Don Abbott Postdoctoral Research Award for an outstanding contributed presentation (talk or poster) by a current postdoc. The award commemorates Don Abbott, a professor at Stanford University and Hopkins Marine Station, an outstanding teacher and marine invertebrate researcher. The winning presenter will receive a plaque and \$500 award. When registering a talk, current postdoctoral researchers may opt to be considered for this award.

Individuals interested in judging for any of the above awards should contact Mathew Leibold (mleibold@austin.utexas.edu) to volunteer to view and score posters or talks.

Award winners will be announced at the end of dinner on Wednesday January 15.

PRESENTATION GUIDELINES

GUIDELINES FOR ORAL PRESENTATIONS

Contributed oral presentations will have 20 minute time slots. Speakers should plan to present for no more than 15 minutes, leaving a minimum of 5 minutes for questions and discussion. The 5 minute Q&A session belongs to the audience, not to the presenter. Accordingly, moderators will be asked to interrupt presentations that exceed 15 minutes.

Each room will be equipped with a PC laptop with Microsoft Powerpoint and Adobe Acrobat, connected to a LCD projector. A laser pointer is provided.

Speakers should arrive at least 15 minutes prior to the start of their session (or during coffee break if presenting in the late morning), with their talk loaded on a USB flash drive to transfer to the laptop. Speakers are discouraged from swapping in their own laptops, but may do so if they require special video or other software for their presentations. Connectors for Mac laptops are not provided, so speakers should bring their own, if they must connect their own Mac.

Laptops will have wifi, and so will be able to access Prezi and other cloud-based presentation formats, provided these are not too memory intensive to transfer efficiently.

Presenters should run through all slides on the conference-provided laptop, to ensure the presentation and all graphics are functional.

GUIDELINES FOR INVITED SYMPOSIUM PRESENTATIONS

Invited symposium presentations will have 30 minute time slots. Speakers should plan to present for no more than 25 minutes, leaving a minimum of 5 minutes for questions and discussion. For A/V tools, see the guidelines for oral presentations, above.

GUIDELINES FOR POSTER PRESENTATIONS

Posters should be no more than 1.2 meters (4 feet) long or tall. Posters should be placed on the provided poster boards in the Kiln Room as soon as possible after arriving. Pins will be provided.

Social events including morning and afternoon coffee will be held in Kiln, so posters will be visible repeatedly throughout the conference. The main time when you should stand by your poster is during the afternoon coffee break on Monday afternoon, January 13.

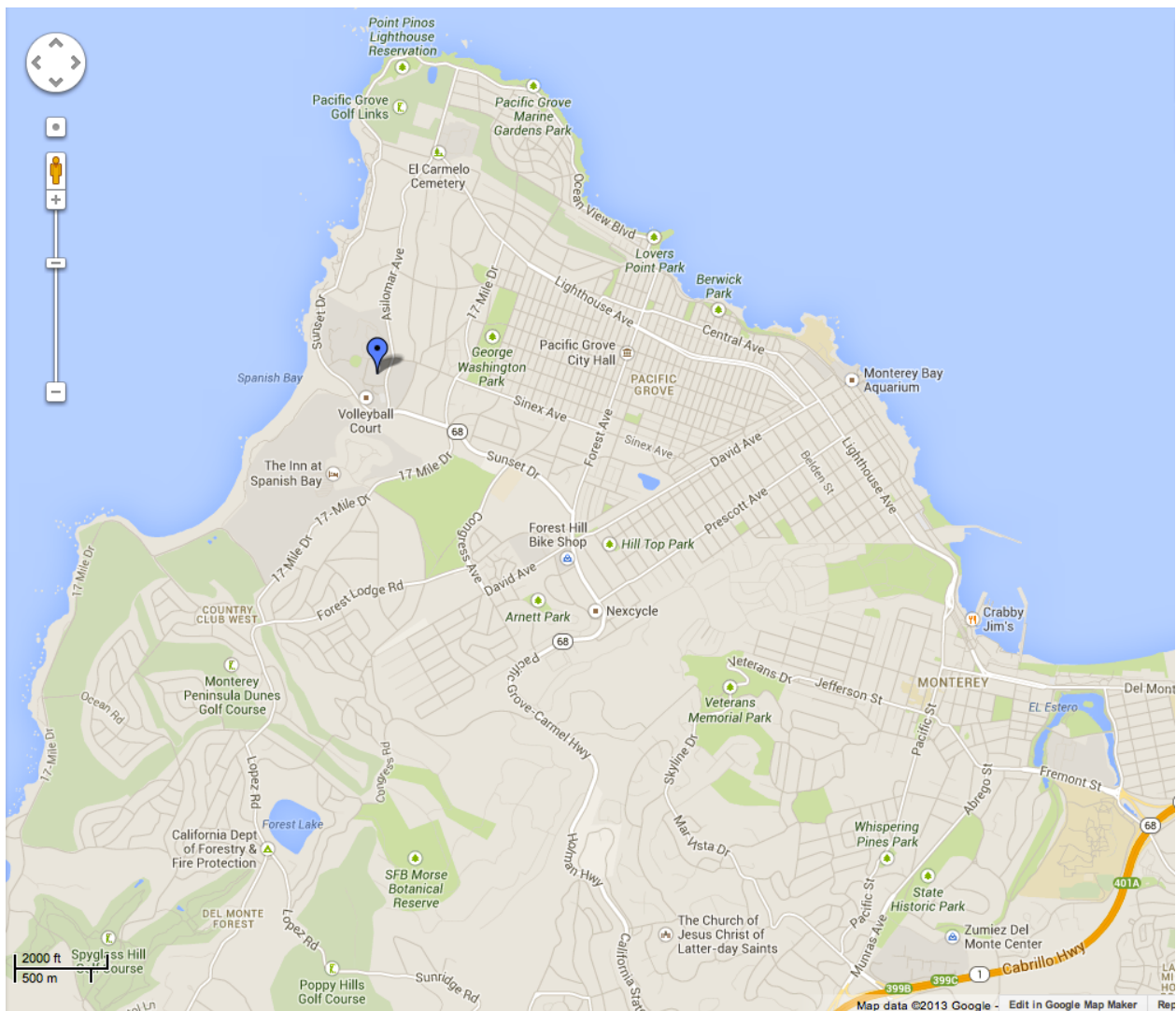
GUIDELINES FOR SESSION MODERATORS

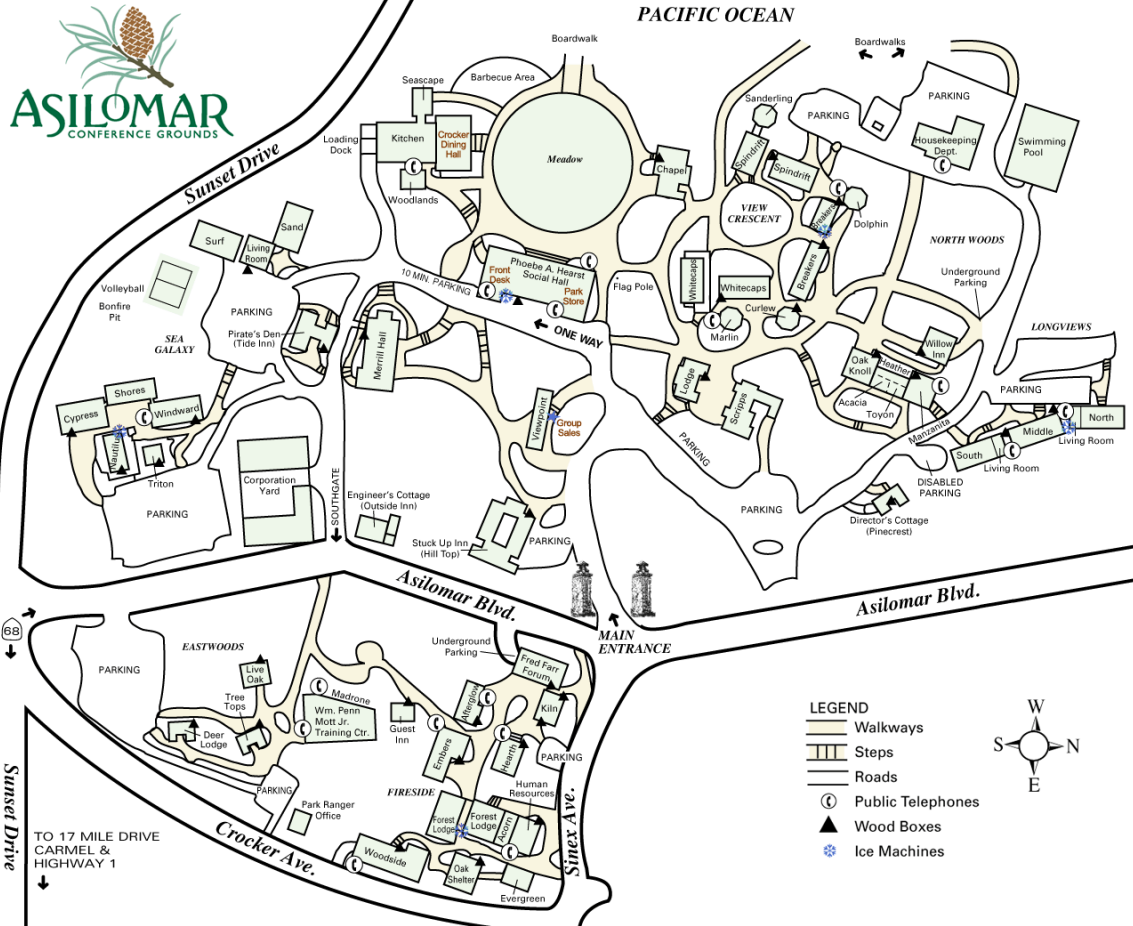
Please pick up a poster listing the talks in your session, and place this on the easel by the door of your conference room. Arrive at the session at least 15 minutes early to help speakers load presentations onto the provided laptop and test their slides. Explain the timing for talks with each speaker (15 minute presentation, 5 min Q&A). Tell the speakers how you will give them cues as their time runs short. You will be given a timer. When they reach 12 minutes, hold up a piece of paper. Repeat when they have one minute left. When they reach 15 minutes, move up to the podium to stand next to them while they finish a last sentence or two. If they appear to run on beyond 16 minutes, interrupt them and ask them to wrap up. Finally, the moderator should pick questions from the audience, to ensure fair representation of audience members.

CONFERENCE LOGISTICS

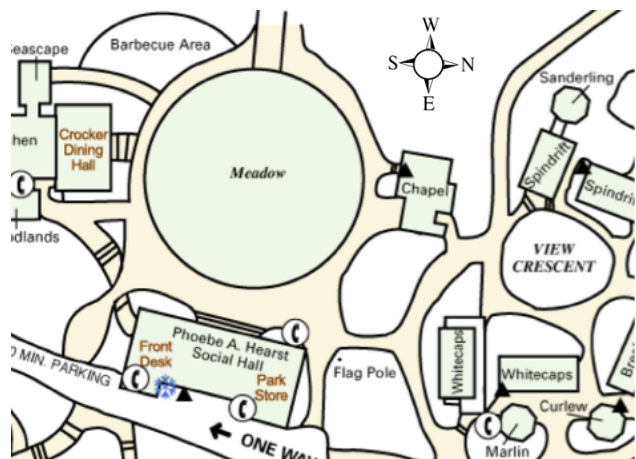
VENUE

The Asilomar Conference Center in Pacific Grove, CA provides a lovely setting nestled along the scenic Asilomar State Beach. The Asilomar Conference Center features views of forest, surf, and sand, and has walking paths down to coastal, rocky intertidal, and dune habitats. The conference center is renowned for its rustic, yet elegant architecture. There are multiple rooms for presentations, and cabins and hotel rooms for lodging. All conference presentation rooms and lodging rooms are in close proximity. For information about the conference center: www.visitasilomar.com. For information about the Asilomar State Park: www.parks.ca.gov/?page_id=566.





The above map of the conference grounds can be found at: http://www.visitasilomar.com/media/57334/asilomar_groundsmap.gif where you can zoom in for details. Kiln is the only conference space outside of the core area around the meadow (top center of the map). Kiln is just outside the main entrance, across Asilomar Boulevard.



Zooming in on the core area of the conference space, the hotel registration is at the front desk in the Phoebe Hearst Social Hall. When attendees arrive, they should check in to their hotel room at the Front Desk in the Social Hall and come to the ASN registration desk in the Chapel. The coffee shop and gift shop are also located in the Social Hall. The Crocker dining hall is just south of the Meadow. The chapel is just to the north of the meadow. Smaller conference rooms Scripps, Marlin, and Curlew are located northeast of the Chapel (right side of map).

LOCAL BUS TRANSPORTATION

The following map and schedule can be found on the Monterey-Salinas Transit website: www.mst.org.

1 Asilomar–Monterey

Primary / Discount
Primaria / Descuento
\$2.50 / \$1.25



1 Asilomar

Weekdays

Notes	Monterey Transit Plaza	Aquarium Foam & Irving	Pacific Grove Lighthouse & Fountain	Asilomar & Sinex	Pacific Grove Golf Course
	5:50	6:00	6:05	6:13	6:19
	7:00	7:10	7:15	7:23	7:29
	8:00	8:10	8:15	8:23	8:29
	9:00	9:10	9:15	9:23	9:29
	10:00	10:10	10:15	10:23	10:29
	11:00	11:10	11:15	11:23	11:29
	12:00	12:10	12:15	12:23	12:29
	1:00	1:10	1:15	1:23	1:29
	2:00	2:10	2:15	2:23	2:29
	3:00	3:10	3:15	3:23	3:29
	4:00	4:10	4:15	4:23	4:29
	5:00	5:10	5:15	5:23	5:29
	6:00	6:10	6:15	6:23	6:29
	7:00	7:10	7:15	7:23	7:29

Saturdays & Sundays

B	5:50	6:00	6:05	6:13	6:19
	7:00	7:10	7:15	7:23	7:29
	8:00	8:10	8:15	8:23	8:29
	9:00	9:10	9:15	9:23	9:29
	10:00	10:10	10:15	10:23	10:29
	11:00	11:10	11:15	11:23	11:29
	12:00	12:10	12:15	12:23	12:29
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	3:00	3:10	3:15	3:23	3:29
	4:00	4:10	4:15	4:23	4:29
	5:00	5:10	5:15	5:23	5:29
	6:00	6:10	6:15	6:23	6:29
	7:00	7:10	7:15	7:23	7:29

Notes:

A Bus departs the Aquarium as JAZZ to Monterey Transit Plaza with continuing service to Sand City.

B Operates Saturdays only.

For Line 1 holiday service schedules, see page 37.



34 Effective 9/28/13

1 Monterey

Weekdays

Notes	Pacific Grove Golf Course	Sally Griffin Senior Center	Pacific Grove Lighthouse & Fountain	Aquarium Wave & David	Monterey Transit Plaza
	6:19	6:23	6:28	6:33	6:42
	--	--	6:53	6:58	7:08
	--	--	7:24	7:29	7:39
	7:29	7:33	7:38	7:43	7:55
	--	--	7:53	7:58	8:10
	8:29	8:33	8:38	8:43	8:55
	9:29	9:33	9:38	9:43	9:53
	10:29	10:33	10:38	10:43	10:53
	11:29	11:33	11:38	11:43	11:53
	12:29	12:33	12:38	12:43	12:53
	1:29	1:33	1:38	1:43	1:53
	2:29	2:33	2:38	2:43	2:53
	3:29	3:33	3:38	3:43	3:53
	4:29	4:33	4:38	4:43	4:53
	5:29	5:33	5:38	5:43	5:53
	6:29	6:33	6:38	6:43	6:53
	7:29	7:33	7:38	7:43	7:53
A	--	--	8:00	8:05	8:15
A	--	--	8:30	8:35	8:45
A	--	--	9:00	9:05	9:15
A	--	--	10:00	10:05	10:15
A	--	--	11:00	11:05	11:15

Saturdays & Sundays

B	6:19	6:23	6:28	6:33	6:42
	--	--	7:24	7:29	7:39
	7:29	7:33	7:38	7:43	7:55
	8:29	8:33	8:38	8:43	8:55
	9:29	9:33	9:38	9:43	9:53
	10:29	10:33	10:38	10:43	10:53
	11:29	11:33	11:38	11:43	11:53
	12:29	12:33	12:38	12:43	12:53
	1:29	1:33	1:38	1:43	1:53
	2:29	2:33	2:38	2:43	2:53
	3:29	3:33	3:38	3:43	3:53
	4:29	4:33	4:38	4:43	4:53
	5:29	5:33	5:38	5:43	5:53
	6:29	6:33	6:38	6:43	6:53
	7:29	7:33	7:38	7:43	7:53
A,B	--	--	9:00	9:05	9:15
A,B	--	--	10:00	10:05	10:15
A,B	--	--	11:00	11:05	11:15

FIELD TRIPS

For more information regarding organized field trips, please contact Becky Fuller at fuller@life.illinois.edu, or visit the conference website <http://w3.biosci.utexas.edu/amnatasilomar/fieldtrips.html>.

In addition to organized field trips, attendees are encouraged to explore the Asilomar area on their own. For more information, visit: <http://www.visitasilomar.com/play/asilomar-activities.aspx> to learn about options right around Asilomar, or visit <http://www.visitasilomar.com/play/area-activities.aspx> to learn about activities in the Monterey Bay region.

There are also ranger-guided tours of the Asilomar state park. For details, visit <http://www.visitasilomar.com/activities/interpretation-education.aspx> or call the local California State Park Office at (831) 646-6443 to schedule a tour.

GETTING TO ASILOMAR

The conference center is 8 miles away from the Monterey Peninsula Airport (MRJ). Local taxis serve the airport as does the Monterey-Salinas Transit bus system. Larger airports in the region include Mineta San Jose International (SJC), which is 80 miles north, and San Francisco International Airport (SFO), which is 110 miles north.

The Monterey Airbus serves both SJC and SFO and delivers people directly to Asilomar. To arrange airport shuttle service to and from San Jose and San Francisco airports, call Monterey Salinas Airbus at 831-373-7777 or visit their <http://montereyairbus.com/ride/>. The shuttle is recommended for those traveling from these larger regional airports. Further details on traveling to Asilomar can be found on the Asilomar Conference Center <http://www.visitasilomar.com/asilomar-conference-center-directions.aspx>.

LODGING

Attendees are encouraged to stay at the Asilomar Conference Center. The residential rooms at the conference center are a minute's walk away from the dining hall and conference rooms, and a few minutes' walk from the ocean. For more information about how to register lodging at Asilomar, and about alternative lodging options, visit <https://w3.biosci.utexas.edu/amnatasilomar/lodging.html>.

DINING & FOOD

While conference attendees are free to explore restaurants in Pacific Grove, the dining hall at Asilomar has excellent cuisine featuring fresh, local produce and a menu that varies daily. There is also a small café and coffee shop in the large social hall. We anticipate attendees will eat at the Asilomar dining hall for most or all meals.

Food at the Asilomar dining hall is included in lodging costs for people staying at Asilomar. For every night you stay at Asilomar, you are entitled to dinner prior to the night, and breakfast and lunch the following day. Meal times are 7:30-8:30 AM (breakfast), 12:00 – 1:00 PM (lunch), and 6:00-7:30 PM (dinner).

People lodging off-site will have to pay for meals, if they wish to dine with the rest of the conference attendees. The meal rates for visitors are listed below, and can be purchased from Asilomar at the front desk. Please email danbolnick@utexas.edu in advance of the meeting so we can get a headcount for the number of people who will be staying off site and purchasing meals.

NOTE: the following meal rates ONLY APPLY to people lodging AWAY FROM ASILOMAR, as meal costs are included for attendees staying at the conference center:

	FOOD	SERVICE FEE (20%)	SALES TAX (8.50%)	TOTAL
Adult Breakfast	\$11.86	\$2.23	\$1.14	\$14.53
Adult Lunch	\$13.47	\$2.69	\$1.37	\$17.54
Adult Dinner	\$22.32	\$4.46	\$2.28	\$29.06
Complete Meals	\$46.95	\$9.39	\$4.79	\$61.13

ACKNOWLEDGEMENTS & CONTACT INFORMATION

This conference was conceived of in 2010 as a way to better serve ASN members, and bring together members from various disciplines. The ASN Executive Council of 2010 developed a plan to reinstitute periodic stand-alone meetings of ASN, and agreed to provide funds necessary to begin the organizational process. The Council at the time included Jonathan Losos (President), Monica Gerber (Vice President), Kathleen Donohue (Treasurer), Dan Bolnick (Secretary), John Thompson, Joel Kingsolver, Bob Holt (Past Presidents), Dough Schemske (Past Vice President), Carol Horvitz (Past Treasurer), Bob Ricklefs (President Elect), Stevan Arnold (Future President Elect), David Reznick (Vice President Elect), Mark McPeck (Editor of *The American Naturalist*), Mike Whitlock (representative to Dryad), Patricia Morse and Andrew Baumann (University of Chicago Press), and Betsey Edges (Financial Advisor).

The process of organizing the meeting was primarily carried out by the Asilomar conference committee, chaired by Dan Bolnick, and assisted by Mathew Leibold and Becky Fuller. We were assisted by the symposium selection committee comprised of Sharon Strauss (chair), Sergey Gavrilets, Jenny Boughman, and Jonathan Levine, and early help from Rick Grosberg and Steve Palumbi who did the initial work of identifying Asilomar as a suitable venue. Field trips were organized by Becky Fuller, with help from Casey ter Horst, Jay Stachowicz, Rick Grosberg, Andy Dosmann, and Leithen M'Gonigle.

As always, ASN is indebted to the University of Chicago Press for its financial and technical support, and to Trish Morse in particular for making everything work.

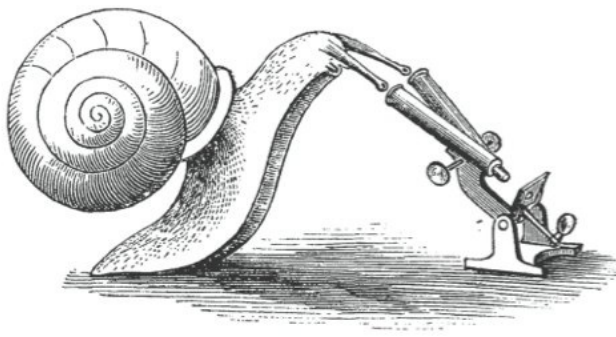
The ASN Asilomar conference website and logo were designed by Derek Tan (derektan@mail.ubc.ca). The ASN Asilomar conference program was designed by Holly Muree Bonine (hollymuree@utexas.edu).

If you have questions or problems regarding the conference, travel, your presentation, etc, you may contact:

Daniel Bolnick, Conference Organizer
512-809-6217 (cell)
danbolnick@austin.utexas.edu

Becky Fuller, co-organizer and Field Trip Tsar
217-333-9065
fuller@life.illinois.edu

Mathew Leibold, co-organizer and Awards Tsar
mleibold@austin.utexas.edu



American Society of Naturalists

To advance understanding of evolution, ecology, behavior, and other broad biological disciplines toward the conceptual unification of the biological sciences

What Is a Naturalist?

“A naturalist can draw on a deep and broad familiarity with one or more groups of organisms or ecological communities in order to inspire ideas, evaluate hypotheses, and intelligently design research with an awareness of organisms’ special peculiarities. Even more, perhaps, a naturalist is inexhaustibly fascinated by biological diversity and does not view organisms merely as models or vehicles for theory but rather as the *raison d’être* for biological investigation.”

—Based on Douglas Futuyama, “Wherefore and Whither the Naturalist?” *American Naturalist* (1998) 151:2

The American Naturalist

In 1867, four men, veterans of the American Civil War and former students of Louis Agassiz at Harvard’s Museum of Comparative Zoology, created a journal that would unite the serious scientific study of organisms in their environments with the development of theory, especially Charles Darwin’s ideas about evolution. They wanted to foster a forum where experts could share insights across many fields. The first issue of *The American Naturalist* was published in March 1867.



The American Society of Naturalists

In 1883, two of the editors of *The American Naturalist* joined with others to form the American Society of Naturalists, a society devoted to cultivating conversation across disciplines. Later, as science became more specialized and professionalized and as more narrowly focused societies broke off from the ASN, members of the ASN reaffirmed the importance of a society whose mission was to promote unification through integration across disciplines. In 1908, both the ASN and *The American Naturalist* recognized evolution as the theory most able to promote the conceptual unification of the biological sciences and embraced its study as central to the mission of the society and the journal. In 1950, the ASN assumed full editorial control of *The American Naturalist*.

An American Society with an International Scope

A third of the membership of the ASN lives outside the United States, and more than half of the submissions to the *The American Naturalist* come from authors in 45 other countries. Institutions in 42 countries around the globe subscribe to the journal, and more than 5,000 libraries in more than 100 developing nations receive access to *The American Naturalist* at no cost or at a deep discount.

Promoting the Conversation in the ASN

- **Stand-alone meetings** on themes of interest across ecology, evolution, and behavioral biology.
- **Graduate student workshops** focused especially on methods integrating data and theory.
- **Graduate student travel awards** supporting travel to annual meetings.
- **Student research grants** supporting research incorporating the conceptual integration for which the ASN stands.
- **Vice-Presidential symposia** publishing themed issues across ecology, evolution, and behavioral biology.
- **ASN symposia** presenting synthetic issues in evolution, ecology, and behavior at the annual meetings.

ASN Awards Honor Those Who Advance the Goals of the Society

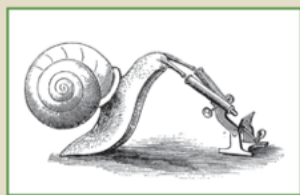
- **Honorary Lifetime Membership**, honoring scientists whose research careers epitomize the goals of the society.
- **Sewall Wright Award**, honoring a senior but still active investigator making fundamental contributions to the society's goals.
- **Edward O. Wilson Naturalist Award**, honoring an active investigator in mid-career who has made significant contributions to the knowledge of a particular ecosystem or group of organisms.
- **Jasper Loftus-Hills Young Investigators Award**, recognizing outstanding and promising work by investigators who received their doctorate degrees within the three years preceding the application deadline.
- **Ruth Patrick Student Poster Award**, recognizing an outstanding poster presented by a student member at the meetings of the ASN.
- **President's Award**, honoring an outstanding article published in *The American Naturalist* in the previous year.
- **The American Naturalist Student Paper Award**, honoring student work published in *The American Naturalist* that best represents the goals of the ASN.

Promoting the Conversation in *The American Naturalist*

The journal welcomes the submission of manuscripts that develop new conceptual syntheses, pose new and significant problems, introduce novel subjects to the readership, or change the way people think about topics of interest to a broad readership.

In addition to articles and notes, *The American Naturalist* publishes

- **Syntheses**, which analyze and synthesize recent findings in the biological sciences and present new perspectives on those results.
- **Historical Syntheses**, which examine the role of earlier articles that have influenced the development and integration of the natural sciences.
- **Natural History Miscellany Notes**, which enlighten our understanding of the natural history of a species and of biological diversity.
- **E-Articles**, which offer color publishing at no additional cost to contributors.



The Logo of the American Society of Naturalists

The snail looking into a microscope appeared at the end of the introductory essay featured in the very first issue of *The American Naturalist*, in March 1867. It was drawn by E. S. Morse, one of the journal's founders; Morse's amply illustrated "The Land Snails of New England" was the first article to be published in the journal. The image of the grasshopper playing a violin (seen on the reverse) was also drawn by Morse and appeared in the article "The Songs of the Grasshopper," published in the May 1868 issue.

Forthcoming Meetings of the American Society of Naturalists

- Evolution 2014, Annual Joint Meeting of the ASN, SSB, and SSE—June 19–25, Raleigh, North Carolina
- Evolution 2015, Annual Joint Meeting of the ASN, SSB, and SSE—June 26–30, Guarujá, São Paulo, Brazil
- Evolution 2016, TBD
- Evolution 2017, TBD
- Evolution 2018, Joint Meeting of the ASN, SSB, SSE, and European Society for Evolutionary Biology—August 15–20, Montpellier, France

The American Naturalist

PUBLISHED FOR THE AMERICAN SOCIETY OF NATURALISTS

THE UNIVERSITY OF CHICAGO PRESS

The American Naturalist

Published for the American Society of Naturalists
by the University of Chicago Press

Frequency: 12 issues/year in 2 volumes; ISSN: 0003-0147; E-ISSN: 1537-5323
Editor in Chief: Judith L. Bronstein; Editors: Troy Day and Susan Kalisz

Since its inception in 1867, *The American Naturalist* has maintained its position as one of the world's premier peer-reviewed publications in ecology, population biology, evolution, and conservation research. Its goals are to publish articles that are of broad interest to the readership, pose new and significant problems, introduce novel subjects, develop conceptual unification, and change the way people think. *AmNat* emphasizes sophisticated methodologies and innovative theoretical syntheses—all in an effort to advance the knowledge of organic evolution and other broad biological principles.

ASN Members: Download your free monthly e-Book Edition of *The American Naturalist* (available in ePUB and MOBI formats)!

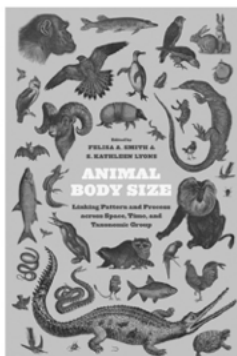
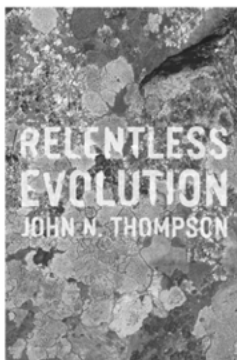
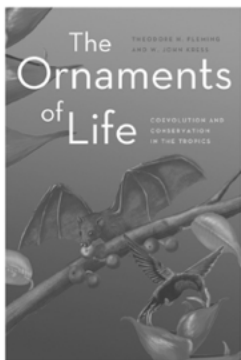
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