



21st-Century Naturalists:

Unifying Biological Principles across Disciplines

JANUARY 10-14, 2016
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 the independent meeting of the ASN in Asilomar. The American Society of Naturalists 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 “*Unify Biological Principles Across Disciplines*”.

To facilitate such interdisciplinary research and collaboration, ASN held its first standalone meeting in 2014 after more than 10 years. The meeting was a huge success and it confirmed the importance of holding these standalone meeting periodically. We took what we learned from previous meetings and tried to keep the good parts and improve where possible. As in the past, our goal was to create a stimulating and invigorating venue that brings together a diverse array of biologists who might not normally encounter one another at separate discipline-specific meetings and to create a public forum where graduate students, postdocs, and faculty can hold discussions to define new research directions that bridge disciplines. We hope this meeting will showcase ASN's unique ability to unify broad biological principles by fusing theory with data, ecology with evolution, and new technological tools with long-standing open questions.

We decided to hold the meeting again at the Asilomar conference center because this venue is the 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 conference center itself provides a pleasant and intimate setting for a small conference where participants have multiple opportunities to interact over meals, between talks, and at evening events. We intentionally chose to continue to keep this ASN meeting small to make it easier for participants to meet new colleagues and establish novel discussions and perhaps collaborations.

We hope you find the meeting is intellectually stimulating and helpful. As with many good things, we had lots of help from many outstanding people were involved who took time out of their busy life and volunteered to make this conference happen. Without them this conference would not have been possible. 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,



Volker Rudolf,
Chair of Asilomar 2016 Organization Committee

CONFERENCE SCHEDULE OVERVIEW

The core of the conference is scheduled to run from the morning of January 11, through the evening of January 13, 2016. On the assumption that many participants will arrive the afternoon before the conference begins (on January 10), we are offering a range of exciting field trips and an evening lecture on January 10, 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 10

TIME	EVENT	LOCATION
Morning & afternoon	Field trips (see details at end of this Program)	Various
3:00PM	Registration opens	Chapel
6:00 PM	Dinner	Crocker Dining Hall
7:30 PM	Welcome & Edward O. Wilson Naturalist Award Lecture: Marlene Zuk	Chapel
9:00 PM	Special Event: Reception & Bonfire Social	BBQ Area

MONDAY, JANUARY 11

TIME	EVENT	LOCATION
7:30 AM	Breakfast	Crocker Dining Hall
8:30 AM	Concurrent sessions	
	Communities & Ecosystems	Chapel
	Trait Evolution	Marlin
	Diseases	Sanderling
	Life History & Metabolic Theory	Curlew
	Coevolution & Evolutionary History	Scripps
10:10 AM	Coffee break	Chapel
10:40 AM	Concurrent sessions, continued	
12:00 PM	Lunch	Crocker Dining Hall
1:00 PM	Symposium 1: Latitudinal Gradients in Species Diversity - 50 years since Pianka	Chapel
2:45 PM	Coffee break & posters	Chapel
3:30	Symposium 1, continued	Chapel

5:00	NSF Information & Discussion session for present and future PIs	Curlew
	ASN board meeting	Marlin
6:00 PM	Dinner	Crocker Dining Hall
7:30 PM	Special Event: Natural History Trivia & Drinks	Chapel

TUESDAY, JANUARY 12

TIME	EVENT	LOCATION
7:30 AM	Breakfast	Crocker Dining Hall
8:30 AM	Concurrent sessions	
	Speciation & Divergence I	Chapel
	Biodiversity	Marlin
	Mutualism & Phenology	Curlew
	Social Behavior & Sex	Sanderling
	Selection & Adaptation	Scripps
10:10 AM	Coffee break	Chapel
10:40 AM	Concurrent sessions, continued	
12:00 PM	Lunch	Crocker Dining Hall
1:00 PM	Symposium 2: The Role of Animal Personality in Speciation	Chapel
2:45 PM	Coffee break	Chapel
3:15 PM	Symposium 2, continued	
5:00	Poster session & Mixer	Chapel
6:00 PM	Dinner	Crocker Dining Hall
7:30PM	Special event: Presidential Debates & Drinks	Chapel

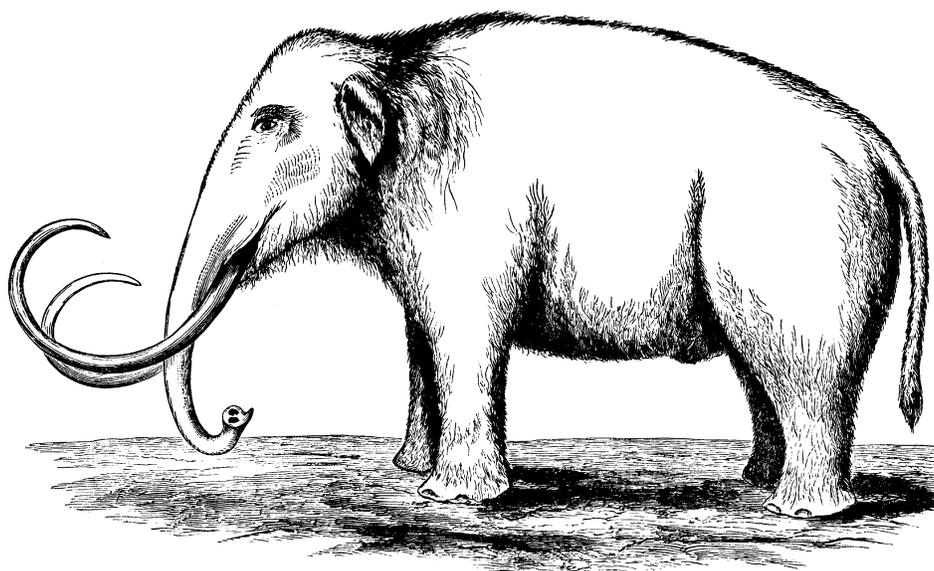
WEDNESDAY, JANUARY 13

TIME	EVENT	LOCATION
7:30 AM	Breakfast	Crocker Dining Hall
8:30 AM	Concurrent sessions	
	Speciation & Divergence II	Marlin
	Predation	Sanderling

	Genetic Analysis	Scripps
	Lightning Talks	Chapel
10:10 AM	Coffee break	Chapel
10:40 AM	Concurrent sessions, continued	
12:00 PM	Lunch	Crocker Dining Hall
1:00 PM	Symposium 3: Using population genomics to predict evolutionary responses to environmental change	Chapel
2:30 PM	Coffee break	Chapel
3:00 PM	Symposium 3, continued	
6:00 PM	Dinner	Crocker Dining Hall
7:30 PM	Special Event: Bonfire Social	BBQ Area

THURSDAY, JANUARY 14

TIME	EVENT	LOCATION
7:30 AM	Breakfast	Crocker Dining Hall
9:00 AM	Beach Hike (see details at end of this Program)	Crocker Dining Hall
12:00 PM	Lunch (free to people staying at Asilomar the night of January 14 th)	Crocker Dining Hall



SPECIAL EVENTS

MONTE CARLO LUNCH

Every day we will offer Monte Carlo Lunches to those who wish to participate. Meet new colleagues. Mingle with students, post docs, junior and senior faculty. How to participate: 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 colored card.

SUNDAY JANUARY 10

EDWARD O. WILSON NATURALIST AWARD LECTURE:

Dr. Marlene Zuk – *Models on the Runway: How do we make replicas of the world?*
7:30 in the Chapel

In 2014, Professor Marlene Zuk from the University of Minnesota was awarded the Edward O. Wilson Naturalist Award. This prestigious award honors an active midcareer investigator who has made significant contributions to the knowledge of a particular ecosystem or group of organisms, and whose research and writing illuminate principles of evolutionary biology and an enhanced aesthetic appreciation of natural history. Professor Zuk embodies the meaning and intent of this award through her extensive studies of sexual selection and behavior in crickets and other organisms, her groundbreaking evolutionary work that established a central role for parasitism and immunity in mate choice. Professor Zuk's research on sexual selection and immune function has drawn striking new links between evolution, behavior, and physiology, and established a new field of evolutionary-based studies that focus on the causes and consequences of variation in health among organisms in natural populations. What is perhaps most remarkable about Professor Zuk's diverse contributions is that her rigorous field and laboratory work is augmented by delightful exposition of biological principles in her popular books on sex, parasites, and human evolution. Professor Zuk's outreach, and sharing of the joy and enthusiasm of the natural world with a larger audience, epitomizes the societal as well as scientific role of naturalists in our society, as intellectual leaders and role models who entertain as well as educate by illuminating the wonders of our biological world.

For her opening lecture talk, Professor Zuk will talk about the use of models - both as theoretical formulations of reality and as model systems representatives of other organisms- in science. A recent paper on how scientists view the world divides our work into the mind, the lab, and the field, and suggests that models must not be conflated with reality. But in practice, these distinctions are blurred. For example, are flour beetles a model system for other insects, when their natural habitat is the same as the way they live in the lab? In addition, models can become restrictive when they are viewed as archetypes, making us over-generalize about the world and ignoring meaningful variation. The study of sexual conflict in insects illustrates some of the pitfalls of relying on *Drosophila* as a model system for sexual selection. Microbes can be used as models for populations and communities, and are also essential parts of larger biological systems. Finally, some models are not meant to replicate the world, but are worlds unto themselves in which diverse possibilities can be directly observed.

RECEPTION & BONFIRE SOCIAL

7:30 in BBQ area

Join us for drinks and snacks (hot chocolate, s'mores, beer, wine) around a bonfire. 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.

MONDAY, JAN 11

NSF INFORMATION & DISCUSSION SESSION

5:00 in Curlew

On Monday afternoon after the symposium ends, NSF program officers Gordon Burleigh (SBS), George Gilchrist (EP), Doug Levey (PCE), and Sam Scheiner (EP) will give a Q&A session about NSF for current and future PIs. Post docs and graduate students are especially encouraged to attend.

NATURAL HISTORY TRIVIA & DRINKS

Join us for a fun event celebrating knowledge of natural history from plants and insects to birds and fish. Watch three teams compete for fame and glory: who will dominate -- the faculty, the students and postdocs, or the theoreticians? Questions will cover everything from identification to "what's that behavior" to guessing geographic location based on the organisms present. The audience will have an opportunity to test their own knowledge and help out the teams when they are stumped.

TUESDAY, JAN 12

PRESIDENT'S DEBATE (& DRINKS):

SO WHAT IS A NICHE?

Debaters: Jonathan Shurin, Brian Langerhans, Rebecca Safran

7:30 in the Chapel

The niche holds an exalted position in the pantheon of biological concepts. The niche is fundamental to our understanding of the distributions and abundances of species, and yet most of us realized long ago that we begin to stammer as we try to define this central concept. Ask a group of second-year graduate students on their qualifying exams what a niche is, and the answers will be as varied as the diets of a community of desert rodents. Some students will tell you about the breeding habitats of California thrashers, some will tell you about the occupations of badgers and vicars, and some will give you gobbledygook about the N-dimensional hypervolumes of zooplankton. The most disconcerting result of this inquiry will be that these seemingly incongruous answers will all pass (is this a signature of grade inflation?).

Jonathan Shurin, Brian Langerhans and Rebecca Safran will engage each other and the audience in a spirited and entertaining debate about the utility and applicability of 'the niche' as an organizing concept in our science. Jon will represent the ecologist's perspective, Brian the evolutionist's perspective, and Becca the behaviorist's perspective. Audience members will also have to defend their own conceptions of the niche—how did you answer the 'niche question' on your qualifying exam? Therefore, everyone should bring their A-game about the fundamental problems

related to ‘the niche’ so that all these problems can be realized and resolved in the N-dimensional hypervolumes we occupy.

Jonathan Shurin (Professor at the University of California, San Diego) explores the connections between populations, communities and ecosystems that shape phytoplankton and zooplankton assemblages. Jon is descended from a very long line of niche enthusiasts and apologists, but he has always questioned the wisdom and authority of his elders. Brian Langerhans (Assistant Professor at North Carolina State University) studies the adaptive diversification of fishes in myriad exotic habitats. Brian has been a life-long niche skeptic, but recently pangs of doubt about his skepticism have shaken his resolve. Rebecca Safran (Associate Professor at the University of Colorado, Boulder) investigates the interplay between phenotypic variation, social organization and genetic structure in driving speciation in birds. Becca has been agnostic about niches her entire life and finds great humor in many of the belief systems of her colleagues.

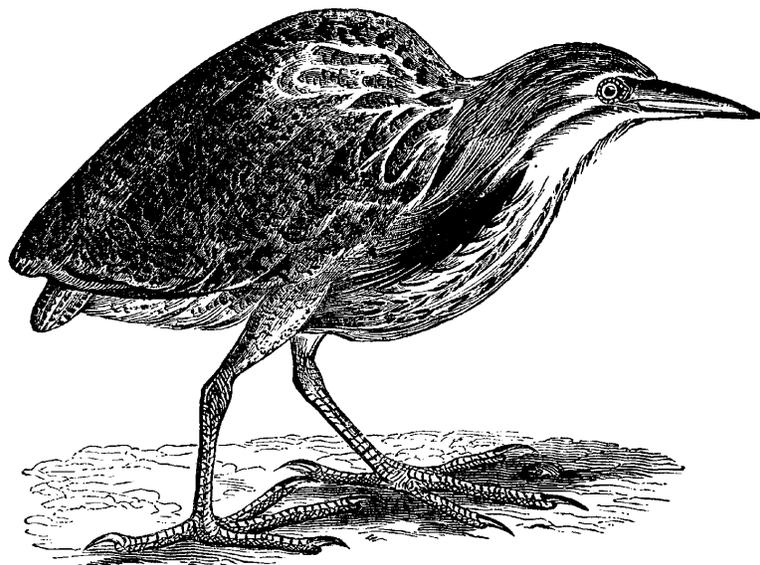
Organized and instigated by Mark McPeck, ASN President 2016

WEDNESDAY, JAN 13

BONFIRE SOCIAL

7:30 in the BBQ area

Join us for drinks and snacks (hot chocolate, s’mores, beer, wine) around a bonfire. 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.



SYMPOSIA SCHEDULE

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

MONDAY, JANUARY 11

SYMPOSIUM 1: LATITUDINAL GRADIENTS IN SPECIES DIVERSITY - 50 YEARS SINCE PIANKA

January 2016 marks the 50th anniversary of Eric Pianka's classic paper, published in the *American Naturalist*, entitled "Latitudinal Gradients in Species Diversity: A Review of Concepts". This groundbreaking paper provided the first synthesis of the major hypotheses for the latitudinal diversity gradient (LDG), and stimulated the research trajectories of legions of naturalists. The remarkable diversity of life found in the humid tropics is as fascinating to biologists today as it was to Pianka in 1966, or to Wallace and Darwin more than 150 years ago. Although an explanation for the LDG has proven elusive, we may be on the cusp of solving this enduring puzzle, as there has been tremendous recent progress in documenting broad-scale patterns of diversity and in understanding their underlying causes. The symposium will draw on the 50th anniversary of the publication of Pianka's classic paper in the *American Naturalist* to show just how far we have come in solving "the major unexplained pattern in natural history". Moreover, the diversity of opinions among our speakers will spark productive debate, promoting new approaches towards a synthesis.

Organizer: Douglas W. Schemske & Gary G. Mittelbach

1:00	Doug Schemske & Eric Pianka	Introduction to the symposium
1:15	David Jablonksi	Shaping the latitudinal gradient: Origination, extinction, and range shifts in the fossil record
1:45	Paul Fine	Ecological and evolutionary drivers of the geographic variation in species diversity
2:15	Robert Ricklefs	Reconciling pattern and process with respect to the latitudinal gradient in species richness
2:45	Coffee Break	
3:30	Amy Freestone	Latitudinal gradients in species interactions
4:00	Hélène Morlon	Out of the tropics, into the tropics, tracking the tropics: insights from molecular phylogenies and recent phylogenetic comparative methods
4:30	Round Table Discussion	

TUESDAY, JANUARY 12

SYMPOSIUM 2: THE ROLE OF ANIMAL PERSONALITY IN SPECIATION

Recognizing that individual animals can possess personalities (defined as consistent individual differences in behavior over time and across contexts) has had a profound impact on several disciplines in ecology and evolutionary biology. Theoretical and empirical results demonstrate the importance of considering individual personality in fields as diverse as invasion and dispersal dynamics, social evolution, life history evolution, and ecological transmission dynamics. Likewise, the past decade has also seen renewed interest in research focused on processes that contribute to speciation. It is surprising, however, that researchers have only recently begun to explore the potential links between personality traits and speciation. Although the role of behavior in speciation is well established (e.g., sexual selection), how personality contributes to speciation remains relatively poorly understood. However, several researchers have begun to explore links between personality and major processes involved in speciation (e.g., sexual selection, non-random habitat use, and geographic isolation). The symposium covers an emerging field that is ripe for synthesis: the role of animal personality in speciation. Specifically, this symposium will highlight recent research and theoretical advances that provide an emerging picture of the role of personality in the speciation process.

Organizer: Spencer J. Ingley

1:00	Spencer Ingley	Individual behavioral differences and the origin of species
1:35	Renee Duckworth	Personality variation, hybridization and the dynamics of colonization
2:10	Gil Rosenthal	Personality, mate choice, and macroevolution
2:45	Coffee Break	
3:15	Alison Bell	The evolutionary implications of nonrandom associations between behavioral types and environments
3:50	Jonathan Pruitt	Exploring the effects of social selection and colony extinction events on immigrant viability in the wild
4:25	Discussion	

WEDNESDAY, JANUARY 13

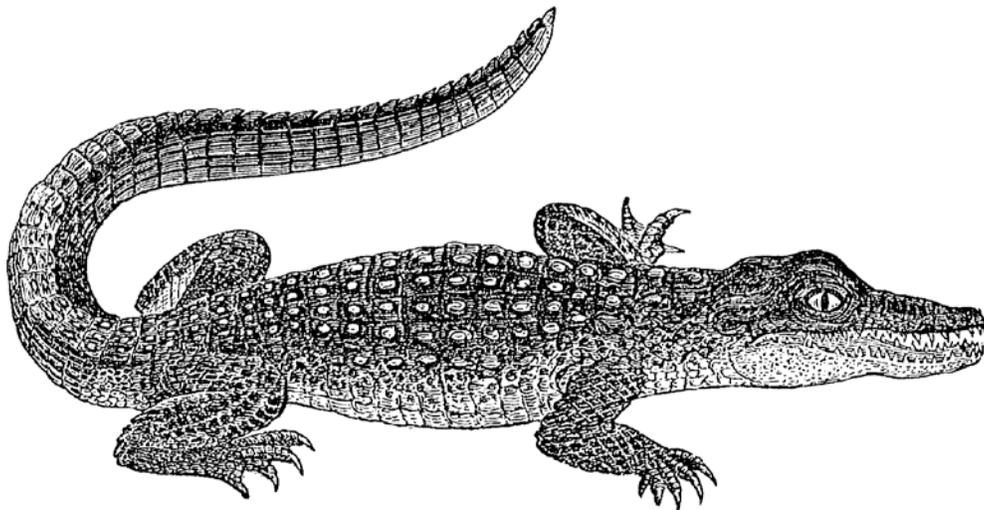
SYMPOSIUM 3: USING POPULATION GENOMICS TO PREDICT EVOLUTIONARY RESPONSES TO ENVIRONMENTAL CHANGE

As contemporary environments change at an unprecedented rate, persistence of species will increasingly depend on their ability to adapt to novel environmental conditions. Currently, models used to predict species responses to environmental change often assume static environmental tolerance over time. Decades of evolution and physiology research contradict this assumption, however; we know that tolerance to environmental stress varies between individuals, between

populations, and across species. The question of whether adaptation can keep up with environmental change, and whether this ability varies between species, populations, and ecosystems remains an essential and unresolved problem in evolutionary biology. Our goal is to begin a discussion that will ultimately result in a principled and predictive theoretical basis for the interpretation of population genomic data to identify which species and populations are most resilient and most vulnerable to environmental change.

Organizer: Rachel Bay & Noah Rose

1:00	Noah Rose & Rachel Bay	Using population genomics to predict the responses of coral reefs to climate change
1:30	Cameron Ghalambour	The role of phenotypic plasticity in rapid evolutionary response to environmental change
2:00	Peter Ralph	Adaptation to changing environments across real geographies
2:30	Coffee Break	
3:00	Jesse Lasky	Genome-environment associations and response to environmental change
4:00	Rachel Brem	Polygenic cis-regulatory evolution in fungi
4:30	Rowan Barrett	The genetic consequences of selection in natural populations
5:00	Discussion	



SCHEDULE OF CONCURRENT SESSIONS

Talk abstracts are available on the meeting website at amnat2016.org/abstracts ordered by the talk ID.

MONDAY, JANUARY 11

COMMUNITIES & ECOSYSTEMS | CHAPEL

Moderator: Mathew Leibold

ID	TIME	NAME	TITLE
M1	8:30	Mathew Leibold	Community Assembly and the Functioning of Ecosystems (CAFE):
M2	8:50	Samuel Scheiner	Functional diversity: what it is, how it can be measured, and ways it can be partitioned
M3	9:10	David Armitage	A unimodal relationship between microbial competition and community age in a natural micro-ecosystem.
M4	9:30	Thomas Miller	Evolution due to intra- and interspecific competition with asymmetric competitors
M5	9:50	Sara Miller	Intraguild predation results in genome wide adaptation in the threespine stickleback
	10:10	COFFEE BREAK	COFFEE BREAK
M6	10:40	Ryan Hechinger	Reversed latitudinal gradients of species richness and interaction intensity for parasites in two wide-ranging host species
M7	11:00	Justin Kitzes	Predicting future extinction debt from present-day community patterns
M8	11:20	Mark Urban	Niche dimensionality selects for sex
M9	11:40	Bob Holt	Thoughts on the interplay of demographic stochasticity, fitness, and the niche concept

TRAIT EVOLUTION | MARLIN

Moderator: Diane Campbell

ID	TIME	NAME	TITLE
M10	8:30	Jaime Ashander	Predicting rescue via evolving plasticity in stochastic environments

M11	8:50	William Driscoll	Major transitions aren't for everyone: unicellular lineages survive by associating with multicellular competitors during the experimental transition to multicellularity in the budding yeast <i>Kluyveromyces lactis</i>
M12	9:10	Katherine Solari	Evolution for extreme living: Variation in mitochondrial cox genes correlated with elevation in pikas (genus <i>Ochotona</i>)
M13	9:30	Peter Zee	Trait evolution and the stability of food webs
M14	9:50	Diane Campbell	Predicting evolutionary responses to climate change from parameterized models of selection on vegetative and floral traits
	10:10	COFFEE BREAK	COFFEE BREAK
M15	10:40	Who Seung Lee	Local adaptation in thermal transgenerational plasticity
M16	11:00	Stephen Proulx	Evolution of deterministic maternal effects and bet-hedging
M17	11:20	Catherine Wagner	Interactions in sympatry shape the diversification of multiple radiating cichlid clades
M18	11:40	Michael Harvey	Contrasting evolutionary histories between birds of upland and floodplain forest in the Amazon

LIFE HISTORY & METABOLIC THEORY | SANDERLING

Moderator: Anurag Agrawal

ID	TIME	NAME	TITLE
M19	8:30	Goggy Davidowitz	Resource allocation strategies among body parts within individuals are affected by sex, body part, and level of resources
M20	8:50	Robin Snyder	We happy few: using structured population models to identify the decisive events in the lives of exceptional individuals
M21	9:10	Helen Sofær	Process and scale in life history theory and invasion biology
M22	9:30	Anurag Agrawal	The cultural history of a plant defense
M23	9:50	Kelsey Yule	Integrating genetic architecture and density dependence to understand the evolution of life history
	10:10	COFFEE BREAK	COFFEE BREAK
M24	10:40	Clinton Francis	Testing the direction and strength of ecological and sexual selection using metabolic theory of ecology

M25	11:00	Emerson Keith Bowers	Elevated glucocorticoids enhance maternal reproductive allocation and offspring development in a wild songbird
M26	11:20	Viktor Nilsson-Ortman	Metabolic scaling as a life history trait: the evolution of ontogenetic allometries
M27	11:40	Priyanga Amarasekare	Evolution of thermal reaction norms in ectotherms

COEVOLUTION & EVOLUTIONARY HISTORY | SCRIPPS

Moderator: Eben Gering

ID	Time	Name	Title
M28	8:30	Masato Yamamichi	Antagonistic coevolution between quantitative and Mendelian traits
M29	8:50	Rus Hoelzel	Killer whale evolution over the course of the Quaternary
M30	9:10	Eben Gering	Poultry in paradise: evolutionary insight from feral and digital chickens
M31	9:30	Stephen De Lisle	On the correspondence between multivariate micro and macroevolution
M32	9:50	Leithen M'Gonigle	The evolution of mutation rate in an antagonistic co-evolutionary model with maternal transmission of parasites.
	10:10	COFFEE BREAK	COFFEE BREAK
M33	10:40	Cara Faillace	Co-evolutionary dynamics of invaders and invaded species in experimental microbial communities
M34	11:00	Hirokazu Toju	Coevolutionary networks in metacommunities
M35	11:20	Gideon Bradburd	Inferring population structure across space and time

DISEASE | CURLEW

Moderator: Jessica Hite

ID	Time	Name	Title
M36	8:30	Samuel Scarpino	Asymptomatic transmission and the resurgence of whooping cough
M37	8:50	Jessica Hite	When do predators increase or decrease disease? An examination of variation using models and field surveys.

M38	9:10	Kaitlyn Mathis	Dead Ant Walking: A beetle predator benefits ants by preferentially consuming parasitized individuals.
M39	9:30	Hannah Frank	Ecological Correlates of Positive Selection in Bat Viral Interaction Genes
M40	9:50	Daniel Bolnick	The evolutionary ecology of sticklebacks' parasite metacommunity: effects of abiotic environment, host ecology, and host immunity
	10:10	COFFEE BREAK	COFFEE BREAK
M41	10:40	Patrick Clay	Small scale pain for large scale gain: parasite competition and the maintenance of biodiversity
M42	11:00	Amanda Hund	Parasite mediated sexual selection and speciation in the barn swallow species complex.
M43	11:20	Marta Shocket	Past and current temperature regulate transmission in a zooplankton-fungus disease system

TUESDAY, JANUARY 12

SPECIATION & DIVERGENCE I | CHAPEL

Moderator: Janette Boughman

ID	TIME	LAST NAME	TITLE
T1	8:30	Eklin Tenorio	How much diversity harbors the mountains? The importance of highlands in the latitudinal gradient of diversity
T2	8:50	Diana Rennison	A Genomic Analysis of Hybridization and Selection During Speciation in Benthic and Limnetic Threespine Stickleback (<i>Gasterosteus aculeatus</i>).
T3	9:10	Rebecca Best	Ecological and evolutionary consequences of divergence and hybridization in Swiss sticklebacks
T4	9:30	Allen Hurlbert	Whenceforth hast thou multiplied? Inferring diversification dynamics from phylogenies
T5	9:50	Sevan Suni	The influence of mating system on mechanisms of reproductive isolation in a Phlox species complex
	10:10	COFFEE BREAK	COFFEE BREAK
T6	10:40	Nicholas Friedman	Ecogeographic gradients in plumage coloration among Australasian honeyeaters and warblers (Meliphagidae, Acanthizidae)
T7	11:00	Janette Boughman	Evolving reproductive isolation along the speciation continuum in sticklebacks

T8 11:20 Joanna Hubbard Plumage color in barn swallows: using comparative quantitative genetics to understand phenotypic divergence

BIODIVERSITY | MARLING

Moderator: Jes Coyle

ID	TIME	NAME	TITLE
T9	8:30	Howard Cornell	What are species pools and when are they important?
T10	8:50	Sofia Prado-Irwin	Intraspecific variation in skin-associated microbial communities of the yellow-eyed Ensatina salamander (<i>Ensatina eschscholtzii xanthoptica</i>).
T11	9:10	Kevin Gross	Environmental geometry and ecological range limits can drive nuanced and realistic biodiversity gradients
T12	9:30	Carina Baskett	A test of the biotic interactions hypothesis to explain the latitudinal diversity gradient: greater herbivore pressure at lower latitudes in a wide-ranging native plant
T13	9:50	Volker Rudolf	Temporal dynamics of biodiversity
	10:10	COFFEE BREAK	COFFEE BREAK
T14	10:40	Jes Coyle	Environmental optimality, not heterogeneity, drives regional and local species richness in lichen epiphytes
T15	11:00	Walter Jetz	Reconciling the effects of time, area, and energy on geographic gradients in species richness
T16	11:20	Robin Elahi	Recent trends in local-scale marine biodiversity reflect community structure and human impacts

MUTUALISM & PHENOLOGY | CURLEW

Moderator: James Thomson

ID	TIME	NAME	TITLE
T17	8:30	Rebecca Batstone	Root foraging is not genetically correlated with mutualism stabilizing traits in the model legume <i>Medicago truncatula</i>
T18	8:50	Shannon Meadley-Dunphy	Seed dispersal characteristics of a native and invasive ant alter the spatial patterns of seedling recruitment and survival
T19	9:10	Kenji Quides	Host Sanctions in the Legume-Rhizobium Symbiosis: A New Avenue of Research

T20	9:30	James Thomson	Pollinator sharing and heterospecific pollen deposition when two plant populations intergrade
T21	9:50	M. Kate Gallagher	Experimental manipulation of flowering phenology alters pollination success in a bumblebee-pollinated species
	10:10	COFFEE BREAK	COFFEE BREAK
T22	10:40	Shannon Carter	Single measures of phenology may not accurately predict phenological shifts
T23	11:00	Manpreet Dhani	Genomic signatures of mutualistic and competitive interactions
T24	11:20	Christopher Johnson	The interplay between pollination and herbivory: insights from a hawkmoth mutualism in the Sonoran Desert

SOCIAL BEHAVIOR & SEX | SANDERLING

Moderator: Njal Rollinson

ID	TIME	NAME	TITLE
T25	8:30	Iris Levin	Stress response, gut microbial diversity, and sexual signals correlate with social interactions: A social network study in North American barn swallows
T26	8:50	Helen McCreery	Group navigation in the face of obstacles during cooperative transport
T27	9:10	Ambika Kamath	Matching movement patterns to mating patterns in the lizard, <i>Anolis sagrei</i> .
T28	9:30	Don Levitan	The nature of sperm competition in a broadcast spawning invertebrate; how gamete mixing influences female choice, sexual conflict and the evolution of gamete recognition systems
T29	9:50	Wilbur Ryan	Comparing latitudinal patterns of reproductive plasticity between a native and exotic coastline in the sea anemone <i>Diadumene lineata</i>
	10:10	COFFEE BREAK	COFFEE BREAK
T30	10:40	Njal Rollinson	Persistent directional selection on body size, bad parenting, and the paradox of stasis
T31	11:00	Machteld Verzijden	Mate choice learning behavior in male <i>Drosophila melanogaster</i> .
T32	11:20	Danielle Edwards	Ecological divergence, adaptive diversification and the evolution of social signaling traits: An empirical study in arid Australian lizards

SELECTION & ADAPTATION | SCRIPPS

Moderator: Andrew Hendry

ID	TIME	LAST NAME	TITLE
T33	8:30	Andrew Hendry	Factors influence selection in theory, stickleback, guppies, and finches
T34	8:50	Matthew Walsh	Local adaptation in transgenerational responses to predators
T35	9:10	Marc Johnson	Can plants adapt to urban environments?
T36	9:30	Brenna Forester	Assessing local adaptation in an endemic, montane salamander threatened by climate change
T37	9:50	Matthew Barbour	Local adaptation of consumers destabilizes food webs
	10:10	COFFEE BREAK	COFFEE BREAK
T38	10:40	Abigail Pastore	How do niche and fitness differences change due to selection in competition? Experimental evolution in protists.
T39	11:00	Sara Jackrel	Intraspecific leaf chemistry drives locally accelerated ecosystem function in aquatic and terrestrial communities
T40	11:20	Laura Weingartner	Environmental influence on the coadaptation of a dioecious host plant (<i>Silene latifolia</i>) and its nursery pollinator (<i>Hadena spp.</i>)

WEDNESDAY, JANUARY 13

SPECIATION & DIVERGENCE II | MARLIN

Moderator: Scott Taylor

ID	TIME	NAME	TITLE
W1	8:30	Elizabeth Scordato	Patterns of hybridization in two barn swallow contact zones
W2	8:50	Scott Taylor	Natural selection and the maintenance of reproductive isolation in hybridizing chickadees
W3	9:10	Nathan Upham	Mammalian phylogeny enters the matrix: A complete species-level analysis of mammals using a supermatrix of 30 genes
W4	9:30	Lu Yao	Using ancient DNA for phylogenetic correction to interpret island dwarfing
W5	9:50	Benjamin Winger	A threshold of genomic introgression predicts plumage divergence among Andean birds

	10:10	COFFEE BREAK	COFFEE BREAK
W6	10:40	John Albert Uy	The genetic basis and genomic consequences of plumage divergence in flycatchers of the Solomon Islands
W7	11:00	Matt Wilkins	Divergent sexual selection, not genetic structure, explains phenotypic differentiation among closely related populations of the barn swallow
W8	11:20	Patrick Hanly	Local and biogeographic drivers of in situ speciation in fishes

PREDATION | SANDERLING

Moderator: Nick Rasmussen

ID	TIME	LAST NAME	TITLE
W9	8:30	Nicholas Rasmussen	Consequences of shifts in the mean and variance in prey phenology for predator-prey interactions
W10	8:50	Jonathan Shurin	Species turnover and the joint effects of climate and predators on lake ecosystems
W11	9:10	William Resetarits	Habitat compression and risk contagion: predator distribution and the spatial dynamics of metacommunities
W12	9:30	Michael McCoy	Resource availability and prey growth dynamics determines the outcome of size-structured predator-prey interactions
W13	9:50	Jesse Barber	Tempo and mode of anti-bat strategies in bombycoid moths: evolution of sonar jamming and acoustic deflection
	10:10	COFFEE BREAK	COFFEE BREAK
W14	10:40	Nicholas Lorusso	Predator-Contingent Exploitation of an Inducible Defense: When is it Best to Sink or Swim?
W15	11:00	Seth Rudman	Piscivore addition causes a trophic cascade within and across ecosystem boundaries
W16	11:20	Benjamin Toscano	Juvenile competitive bottleneck dynamics in freshwater zooplankton

GENETIC ANALYSIS | SCRIPPS

Moderator: Liza Holeski

ID	TIME	NAME	TITLE
W17	8:30	Petri Kemppainen	Genomic signatures of artificial selection in natural house sparrow populations

W18	8:50	Lawrence Uricchio	Explosive growth alters genetic architecture and hampers the detection of causal loci for traits under selection
W19	9:10	Liza Holeski	Genetic architecture of constitutive and induced herbivory-defense traits in <i>Mimulus guttatus</i> (yellow monkeyflower)
W20	9:30	David Houle	Is the G matrix a ball or a jack?
W21	9:50	cancelled	
	10:10	COFFEE BREAK	COFFEE BREAK
W22	10:40	Emilie Snell-Rood	Variability in gene expression as a mechanism of developmental plasticity: a case study of physiological learning in caterpillars
W23	11:00	Chad Brock	Adaptive plasticity generates microclines in threespine stickleback male conspicuousness

LIGHTNING TALKS | CHAPEL

ID	TIME	NAME	TITLE
BEHAVIOR			
<i>Moderator:</i> Gill Rosenthal			
W24	8:30	Rachael Olliff Yang	Patterns of avian breeding phenology in Marin County California
W25	8:38	Ralph Washington, Jr.	<i>Wyeomyia</i> and <i>Heliconia</i> : a model system for the investigation of oviposition-site selection
W26	8:46	Anastasia Rahlin	Selection for early breeding in Hume's warblers
W27	8:54	Jay McEntee	Darwin vs. Wallace
W28	9:02	Shifra Goldenberg	Vertical transmission of social roles drives resilience to poaching in elephant networks
W29	9:10	Reilly Dibner	Diet specialization varies with spatial scale for a sensitive reptile
W30	9:18	Gloria Massamba N'Siala	Thermal tolerance and geographical range size relationships: a comparison between widespread- and restricted-distributed marine species of the genus <i>Ophryotrocha</i> (Annelida, Dorvilleidae)

CLIMATE CHANGE

Moderator: Nancy Emery

W31	9:26	Casey terHorst	Genetic variation in symbionts may allow coral reef species to adapt to climate change
W32	9:34	Nicole Bitler	Phenotypic consequences of range expansion in two intertidal snails, <i>Nucella lamellosa</i> and <i>Nucella ostrina</i>
W33	9:42	Cora Ann Johnston	With new frontiers come new risks and responses: A tree crab's adjustment to life in the marsh (a tropicalization story)
W34	9:50	Kane Keller	Tri-trophic symbiotic interactions and host plant responses affected by climate change
W35	9:58	Molly Albecker	The future of coastal anuran amphibian populations: Local extinction or local adaptation?
	10:10	COFFEE BREAK	COFFEE BREAK

MUTUALISM

Moderator: Kay Gross

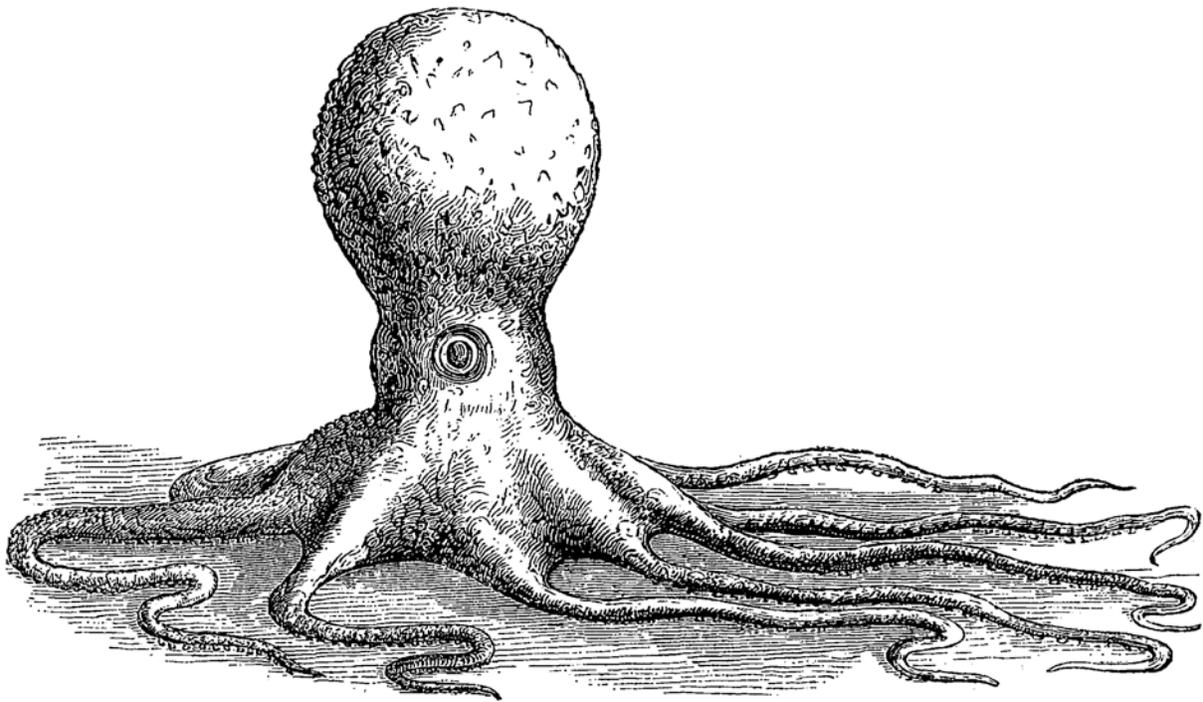
W36	10:40	Charlotte de Keyzer	Plants and their pollinators: can one range shift lead to another?
W37	10:48	Sarah Richman	Competition between mutualists within a multi-species plant-pollinator interaction
W38	10:56	David Hembry	Plant-pollinator diversification and community assembly in the Society Islands
W39	11:04	Megan Frederickson	A role for the foraging gene in an ant-plant mutualism?
W40	11:12	Gordon Smith	Consequences of linked nectaring and oviposition preferences in the hawkmoth <i>Manduca sexta</i>
W41	11:20	Meredith Cenzer	Adaptation to an invasive host is collapsing a native ecotype in soapberry bugs
W42	11:28	Erica Newman	An information-entropy approach to predicting metabolic rate distributions in ecological communities
W43	11:36	Joel Sachs	Epidemic spread and genomic-island acquisition of a <i>Bradyrhizobium</i> with superior catabolic capabilities

W44 11:44 Kelsey Gano

Non-nodulating *Bradyrhizobium* attenuate the benefits of the legume-rhizobium mutualism

W45 11:52 Emily Weiss

Evolution of a model sea anemone symbiosis in Caribbean Panama

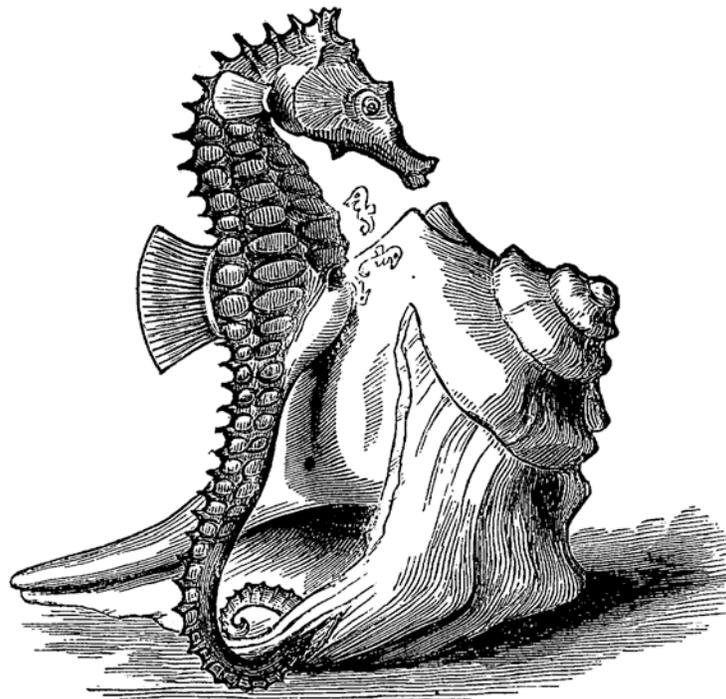


POSTERS

Posters should be put in their designated spot on a posterboard in the Chapel. Tuesday afternoon will feature an hour long break & mixer during the symposium, when presenters should plan to stand by their poster.

ID	First Name	Title
P1	Christopher Moore	Understanding the population dynamics of mutualism through specific birth and death rates
P2	Kenneth Whitney	Pollinator visitation is predicted by plant traits, phylogenetic isolation, and associational effects
P3	Kyle Donahue	Predation and parasitism and the effects on barn swallow territory switching
P4	Hannah Clipp	Avian Community Response to Salmon Recolonization in the Cedar River Watershed, WA
P5	Ellen Simms	Legumes co-invade with native rhizobia
P6	Helen Kurkjian	Network heterogeneity in <i>Pseudomonas syringae</i> : an empirical test of a new method for bacterial metapopulation experiments
P7	Rachel A Steward	Persistent maladaptation of a native butterfly to novel host plants
P8	Charles Goodnight	Population Differentiation and Speciation
P9	Jerry Cole	Grassland bird response to prescribed fire is mediated by pre-fire vegetation structure
P10	Yuxin Zhang	The elevational variation of arthropod community on ground are determined by the ant-aphid mutualism in canopy
P11	Jessie Moravek	The Influence of Salmon Recolonization on Riparian Communities in the Cedar River, Washington, USA

P12	Klara Scharnagl	Dusting the shelves of diversity: Using herbarium data to investigate whether lichens follow the latitudinal diversity gradient
P13	Emily Schultz	The importance of within-patch heterogeneity for metapopulation dynamics: applying scale transition theory to a size-structured metapopulation model
P14	David Zonana	How do mating signals mediate social and reproductive interactions in a <i>Callipepla</i> quail hybrid zone?
P15	Matthew Iacchei	Identifying environmental drivers of genetic differentiation in the open sea
P16	Majorie Weber	The macroevolution of perfume signals in orchid bees (<i>Euglossa</i>): signatures of chemically mediated species recognition and species coexistence



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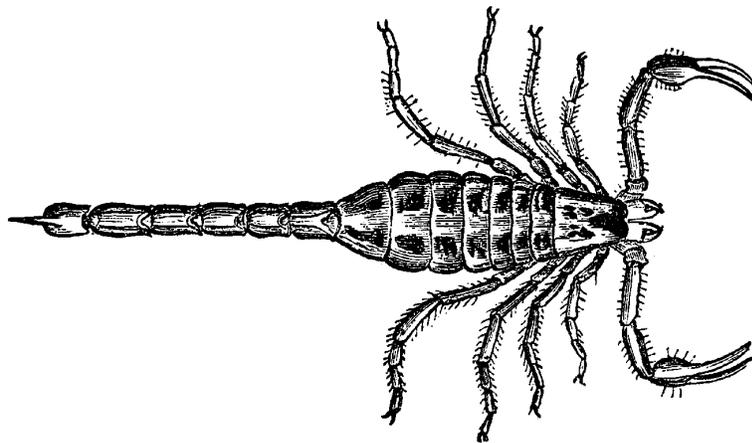
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AWARDS

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 award to the winning student at the meeting. 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. 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.



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. 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. 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 time slots determined by the symposium organizers. Speakers should plan to leave 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 Chapel Room as soon as possible after arriving during breaks or in the evening. Social events including morning and afternoon coffee will be held in Chapel, so posters will be visible repeatedly throughout the conference. The main time when you should stand by your poster is during the poster session on Tuesday afternoon at 5pm, January 12.

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. 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.

LOGISTICS

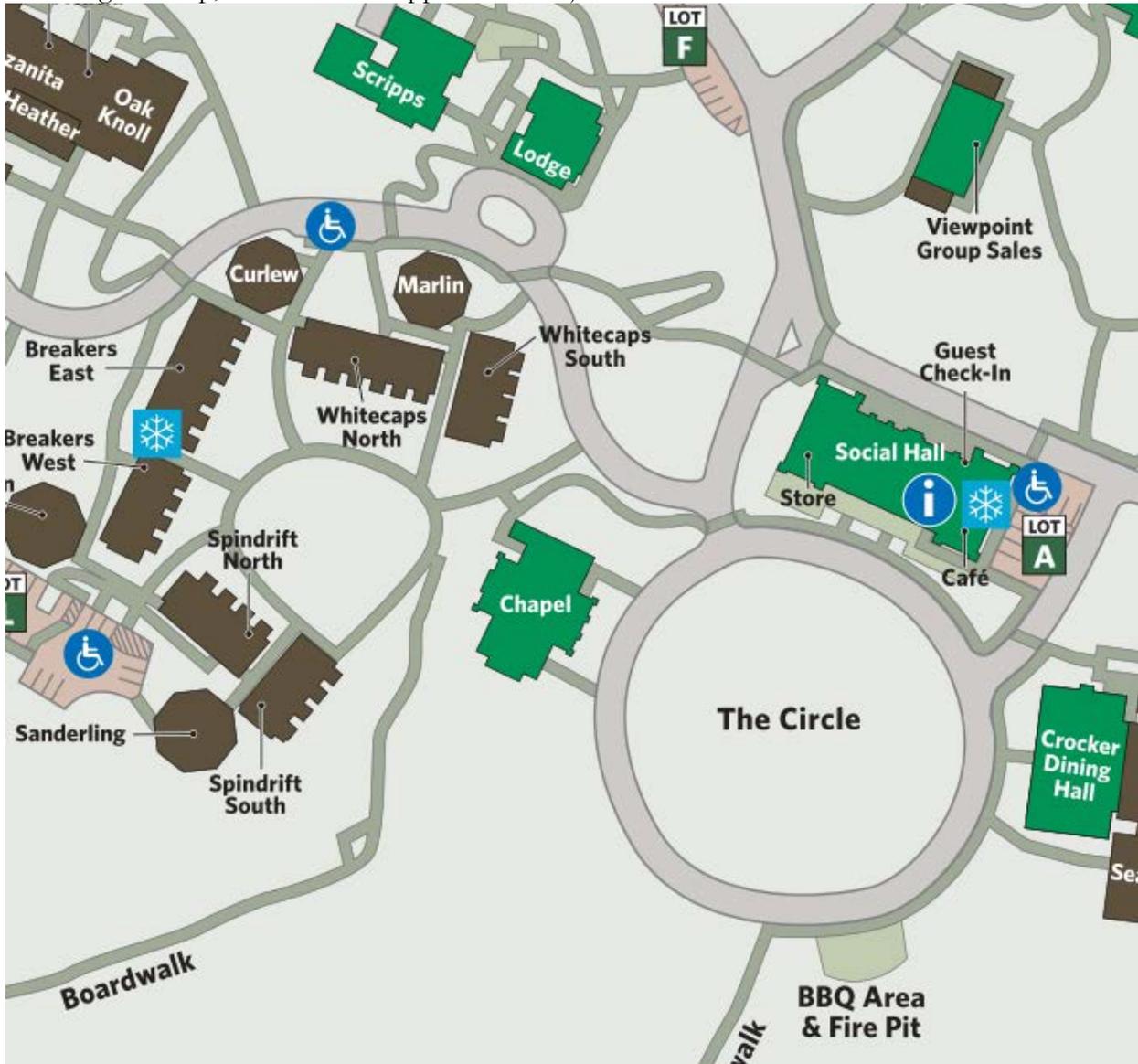
VENUE

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 following map of the Asilomar conference grounds can be found at http://www.visitasilomar.com/media/57334/asilomar_groundsmap.gif where you can zoom in for details.



Zooming in on the core area of the conference space (below), 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 Hearst 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 west of the Meadow. The chapel is just to the east of the meadow. Smaller conference rooms Sanderling, Marlin, and Curlew are the octagonal buildings to the north and east (left and top) of the following map, and Scripps is just east of Curlew and Marlin.



GETTING TO ASILOMAR

Air: The conference center is 8 miles away from the Monterey Peninsula Airport (MRY). 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 website, <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 website, <http://www.visitasilomar.com/asilomar-conference-center-directions.aspx>.

By Car: Directions to Asilomar can be found on the Asilomar Conference Center website, <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 www.amnat2016.org

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.

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.

FIELD TRIPS

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. . A group ranger-led tour at the end of the conference has been arranged. Meet at Crocker Dining Hall at 9AM.

ACKNOWLEDGMENTS & CONTACT INFORMATION

The progress of organizing the meeting was primarily carried out by the Conference planning committee, chaired by Volker Rudolf, and assisted by Jen Gee, Emilie Snell-Rood, and Walt Koenig. We were assisted by the symposium selection committee comprised of Jessica Gurevitch, and Emilie Snell-Rood, with help from Ellen Ketterson, and Dan Bolnick for guidance on logistics. Jen Gee Ken Petren and Trevor Price selected the date and venue for the conference and initiate planning. Field trips were organized by Jen Gee, Emilie Snell-Rood, and Walter Koenig.

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The ASN Asilomar conference website and logo were designed by Derek Tan (drktan@gmail.com). The conference program was designed by Volker Rudolf based on the previous design by Holly Muree Bonine and Daniel Bolnick.

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

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