



Schedule for SyngBio 2017

Sunday	May 14, 2017
4-9 pm 7-9pm Grand Salon	Meeting Registration , On Campus, Outside Grand Salon in Plant Lobby (Building #51 on map) Meet and Greet , On Campus, Grand Salon of Plant Hall
Monday	May 15, 2017
7:30-8:30 am 1st Floor Vaughn	Breakfast , Ultimate Dining in Vaughn (#44 on map)
8:00-9am President's Conference Room 9th Floor Vaughn	Continuation of On-Campus Meeting Registration , 9 th Floor of Vaughn Center
8:45am Crescent Club 9th Floor Vaughn	Welcome and Announcements
9:00-9:45 Crescent Club 9th Floor Vaughn	Sexual Selection and Mating Systems <u>Keynote: Kenyon Mobley (Switzerland)</u> Sexual selection and the evolution of female ornamentation in pipefishes
9:45-10:45am Crescent Club 9th Floor Vaughn	Sexual Selection and Mating Systems (Moderator: Amanda Vincent) Caitlin Leslie (USA) : The mating system of the blue-striped pipefish, utilizing both behavioral and genetic methods * Masahito Tsuboi (Norway) : Brain size evolution in Syngnathidae: the role of sexual selection and feeding ecology



	<p>Nuno Monteiro (Portugal): Brood reduction, embryo homogenization and the “women in red” effect: new perspectives in pipefish male pregnancy</p> <p>Charlotta Kvarnemo (Sweden): Costs and benefits to male pipefish caring for broods of different sizes</p>
10:45-11:15am	Coffee Break in Trustees’ Board Room
11:15-12:30 Crescent Club 9th Floor Vaughn	<p>Genomics (Moderator: Adam Jones)</p> <p>Clay Small (USA): The Gulf pipefish reference genome facilitates genetic study of derived morphologies and an evolutionary novelty</p> <p>Geng Qin (China): GPER (G protein-coupled estrogen receptor 1) is involved in brood pouch cell proliferation of seahorse</p> <p>Adam Jones (USA): The estrogen connection in syngnathid sexual selection</p> <p>Qiang Lin (China): Seahorse genome and morphological events in evolution</p> <p>Allison Fuiten (USA): Key losses in Hox Coding and Regulatory Elements in the Gulf Pipefish</p>
12:30-2pm 1st Floor Vaughn	Lunch on campus, Ultimate Dining in Vaughn (#44 on map)
2:00-2:45pm Crescent Club 9th Floor Vaughn	<p>Syngnathid Communication and Human Impacts on Behavior</p> <p><u>Keynote: Adam Lim (Malaysia)</u> Acoustic Signatures and Sound Producing Mechanisms in Syngnathid Fishes</p>
2:45-3:15pm Crescent Club 9th Floor Vaughn	<p>Syngnathid Communication and Human Impacts on Behavior (Moderator: Gunilla Rosenqvist)</p> <p>Tacyana Oliveira (Brazil): Assessing wild seahorse sounds in Brazil</p> <p>Jorge Palma (Portugal): The effect of anthropogenic noise as a source of acoustic stress in wild populations of <i>Hippocampus guttulatus</i></p>
3:15-3:45pm 9th Floor Vaughn	Coffee Break in Trustees’ Board Room



<p>3:45-5:00pm</p> <p>Crescent Club</p> <p>9th Floor Vaughn</p>	<p>Gunilla Rosenqvist (Norway): Sex in murky waters: algal induced turbidity increases sexual selection in pipefish</p> <p>Maarten De Brauwer (Australia): Behavioural and physiological impacts of flash photography on seahorses</p> <p>Louw Claassens (South Africa): An unexpected Atlantis: using artificial structures in the conservation of an endangered seahorse species</p> <p>Maite Mascaro (Mexico): Thermal preference, energy balance and growth in <i>Hippocampus erectus</i> (Perry, 1810): the effect of gradually increasing temperature during exposure</p> <p>Mari Kawaguchi (Japan): Morphological observations on the formation of brood pouch of pot-bellied seahorse <i>Hippocampus abdominalis</i></p>
<p>5:00-7:00pm</p>	<p>Busses depart for The Florida Aquarium from the front of the Vaughn Center (Building 23) starting at 5:15 (second bus at 5:30), and participants should get dinner in the area of the Aquarium prior to the evening event. Announcements regarding available restaurants will be made earlier in the day.</p>
<p>7:00-9:00pm</p> <p>Florida Aquarium</p>	<p>Evening Event – Florida Aquarium, Scientific Storytelling</p> <p>Drinks and Nibbles will be available</p> <p>Keynote: Richard Smith (UK): Seahorses and Beyond</p> <p>British marine biologist Dr. Richard Smith travels the world's oceans photographing and studying the tiny and under-appreciated species that make our seas such a treasure trove of biodiversity. His talk will take you on a journey through the fascinating group that comprises the pipefishes and seahorses, including many rarely seen and photographed animals. Richard will share stories of his adventures searching for these animals and investigates their biological quirks that capture our imaginations. In addition, others of us will tell tales of our experiences with these mythical animals and the sometimes perilous conditions in which we work. This event is made possible thanks to the support of the Herbert W. Hoover Foundation, supporters of seahorse and marine conservation in Florida's Biscayne National Park. Please join us for an evening featuring these unusual fish!</p>
<p>Tuesday</p>	<p>May 16, 2017</p>
<p>7:30-8:30</p> <p>1st Floor Vaughn</p>	<p>Breakfast, Ultimate Dining in Vaughn (#44 on map)</p>



<p>8:30-9:15am Crescent Club 9th Floor Vaughn</p>	<p>Syngnathid Reproductive Physiology, Feeding patterns, and Natural Population Dynamics</p> <p><u>Keynote: Atsushi Sogabe (Japan)</u> Ovarian structure and mode of egg production as a phylogenetic constraint on mating patterns in Syngnathids</p>
<p>9:15-10:00am Crescent Club 9th Floor Vaughn</p>	<p>Syngnathid Reproductive Physiology, Feeding patterns, and Natural Population Dynamics (Moderator: Heather Masonjones)</p> <p>Alana Boyles (USA): Seasonal Changes in the Reproductive Biology of a Tampa Bay (FL) Population of the Dwarf Seahorse, <i>Hippocampus zosterae</i></p> <p>J Pedro Andrade (Portugal): Spatial and temporal variation in the abundance of two sympatric seahorse species (<i>Hippocampus guttulatus</i> and <i>Hippocampus hippocampus</i>)</p> <p>Nicole Dunham(USA): Distribution and Abundance of <i>Hippocampus erectus</i> and <i>Hippocampus zosterae</i> in Florida Estuaries</p>
<p>10:00-10:30am 9th Floor Vaughn</p>	<p>Coffee Break in Trustees' Conference Room</p>
<p>10:30-12:30 Crescent Club 9th Floor Vaughn</p>	<p>(Moderator: J Pedro Andrade)</p> <p>David Harasti (Australia): The Ups and Downs of the White's Seahorse <i>Hippocampus whitei</i> in Australia.</p> <p>Clayton Manning (Canada): Medium and small-scale habitat associations of White's seahorse (<i>Hippocampus whitei</i>) in New South Wales, Australia, with a focus on predators and prey</p> <p>Heather Masonjones (USA): Population dynamics and habitat preferences of the lined seahorse (<i>Hippocampus erectus</i>) inhabiting a Bahamian saltwater lake</p> <p>Katie-Lynn Roberts (Bahamas): Plankton Dynamics of a Species-Poor Bahamian Saltwater Lake: Which Prey Do Lined Seahorses (<i>Hippocampus erectus</i>) Prefer?</p> <p>Nuno Simoes (Mexico): Amphipods as feed for seahorse aquaculture</p>



	<p>Emilie Stump (Canada): Occurrence and habitat selection in syngnathid fishes in Biscayne National Park, Florida</p> <p>Lindsay Aylesworth (Canada): Approaches to locating cryptic and data-poor marine fishes for conservation</p> <p>Sarah Foster (Canada): Low bycatch rates add up to big numbers for a genus of small fishes</p>
12:30-2pm 1st Floor Vaughn	Lunch on campus, Ultimate Dining in Vaughn (#44 on map)
1:00-2:00pm Crescent Club 9th Floor Vaughn	Nanette O’Hara, Tampa Bay Estuary Program: Tampa Bay - Twenty-five years in 25 minutes, the story of the restoration of the Tampa Bay Estuary
2-3:45 pm Crescent Club 9th Floor Vaughn	<p>Population Genomics and Phylogenetics (Moderator: Emily Rose)</p> <p>Healy Hamilton (USA): The evolutionary diversity of syngnathid fishes</p> <p>Sarah Flanagan (USA): Population genomics reveals multiple drivers of population differentiation in a sex-role-reversed pipefish</p> <p>Emily Rose (USA): A DNA-based assessment of the phylogenetic position of a morphologically distinct, anchialine-lake-restricted seahorse</p> <p>Nuno Monteiro (Portugal): A female lek mating system in the worm pipefish (<i>Nerophis lumbriciformis</i>)</p> <p>Josefin Stiller (USA): A phylogenomic analysis of Syngnathidae based on high-throughput sequencing of more than 1000 genetic regions</p> <p>Nancy Pham Ho (USA): Population genetics of the lined seahorse, <i>Hippocampus erectus</i></p>
3:45-4pm	Pop-up session: Share current research with colleagues
4:00-4:30pm	Coffee Break in Trustees’ Board Room



<p>4:30-5:30</p> <p>Crescent Club</p> <p>9th Floor Vaughn</p>	<p><u>Lightning talks:</u> (10 minutes each= 3-5 min talk and 5-7 min questions) (Moderator: Ingrid Ahnesjö)</p> <p>Ingrid Ahnesjö (Sweden): Are “sex-roles” in pipefishes and seahorses exceptional?</p> <p>Graham Short (USA): A new pygmy pipehorse, <i>Idiotropiscis aotearoa</i> (Teleostei: Syngnathidae), from New Zealand</p> <p>Lindsay Aylesworth (Canada): Generating spatial data for marine conservation and management & Effects of indiscriminate fisheries on small data-poor species</p> <p>Shawn Garner (USA): Leafy Seadragon Courting based on Moon Phases</p> <p>Louw Claassens (South Africa): Big brother is watching: gaining insights into seahorse behaviour using GoPro cameras</p> <p>Miguel Correia (Portugal): Is filament clipping an effective tool for tissue sampling in <i>Hippocampus guttulatus</i> Cuvier?</p>
<p>5:30-7:30</p>	<p>Participants have dinner on their own in Tampa</p>
<p>7:30-9:00pm</p> <p>Trustees’ Board Room</p> <p>9th Floor Vaughn</p>	<p>Memorial for members of Syngnathid fish community lost since last meeting</p> <p><u>Poster session</u></p> <p>Ingrid Ahnesjö (Sweden): Trophic specialization in a broadly-distributed nearshore pipefish species</p> <p>Laura Bellato (Italy): Mapping critical habitat for <i>Hippocampus zosterae</i>*</p> <p>Elizabeth Brown (USA): Identification and Comparison of Vibrio Species within Captive and Wild Caught <i>Syngnathus scovelli</i>*</p> <p>Mercedes Bruce (USA)/Guadalupe Sepulveda-Rodriguez (Mexico): The effects of 17α-ethinyl-estradiol (EE2) on sexually selected banding patterns of the sexually dimorphic Gulf pipefish, <i>Syngnathus scovelli</i> *</p> <p>Emily Craft (USA): A baseline examination of habitat preference of the Gulf pipefish (<i>Syngnathus scovelli</i>)</p> <p>Jessica Elson (USA): Effects of abiotic environmental factors on reproduction in the Sweetings Pond Seahorse, <i>Hippocampus erectus</i>*</p> <p>Megan Hill (USA): Male Mate Choice in <i>Hippocampus zosterae</i>*</p> <p>Diego Luzzatto (Argentina): Trade of seahorses in Argentina & The presence of the Patagonian seahorse <i>Hippocampus patagonicus</i> in Monte Hermoso, southwestern Buenos Aires Province, Argentina</p> <p>Ally Marter (USA)/Joshua Smith (Bermuda): Use of mark-recapture techniques to quantify the population size of <i>Hippocampus erectus</i> in a closed system*</p>



	<p>Maite Mascaro (Mexico): Characterization of the respiratory metabolism of juvenile <i>Hippocampus erectus</i> (Perry, 1810) near the limit of thermal tolerance: the effect of magnitude and velocity of temperature change</p> <p>Maryam Norouzibakhsh (Iran): Studying the genetic diversity of pipefish population in Caspian Sea using nuclear genome*</p> <p>Marina Quiñe (France): <i>Hippocampus ingens'</i> conservation and fishermen ecological knowledge in Peru. Ethnobiology's role in endangered marine species studies *</p> <p>Breann Roberts (USA): Lined Seahorse (<i>Hippocampus erectus</i>) Habitat Preferences in a Bahamian Saltwater Lake *</p> <p>Nuno Simoes (Mexico): Current and future distribution of <i>Hippocampus erectus</i> in the climate change scenario: a modelling approach.</p> <p>Nuno Simoes (Mexico): Color manipulation on the lined seahorse <i>Hippocampus erectus</i> (Perry, 1810)</p> <p>Julia Skowronski (USA): Reproductive success of male <i>Syngnathus scovelli</i> pipefish across seasons</p> <p>Josefin Stiller (USA): Phylogeography of leafy and common seadragons inferred from genome-wide data *</p> <p>Rachel Thomas (USA): The Use of Microsatellites to Detect Molecular Diversity in an Isolated Bahamian Seahorse Population*</p> <p>Angelica Vega Ramirez (USA): Comparison of Methodology for Measuring Female Ornaments of Gulf Pipefish (<i>Syngnathus scovelli</i>)*</p> <p>Brooke Weinstein (USA): Pair-bonding changes sexually dimorphic gene expression in bluestripe pipefish (<i>Doryrhamphus excisus</i>) brains*</p>
<p>Wednesday</p>	<p>May 17, 2017 PLEASE be aware that the technical sessions and field trips have been switched in time based on field conditions and availability of resources at our field trip locations.</p>
<p>6:30-7:00am 1st Floor Vaughn</p>	<p>Breakfast, McKay Community Room (#20 on map) for BioBlitz and Birding field trips ONLY</p>
<p>7:30-8:30 1st Floor Vaughn</p>	<p>Breakfast, Ultimate Dining (#44 on map) in Vaughn for non-field trip participants and Mote and Florida Aquarium field trips</p>
<p>Early am-mid day</p>	<p>Excursions in Tampa Area. For folks not going on scheduled excursions, morning free as an option to explore downtown Tampa. All transportation for field trips will leave from the front of the Vaughn Center (Building 23)</p>



	<ol style="list-style-type: none"> 1) Mote Marine Laboratory trip to observe shark facilities (Led by Amanda Hodo and Brian Siegel; Pick up boxed lunches from local team leader, Alana Boyles; depart 8:45am) 2) Field Trip to Florida Aquarium (Led by Shawn Garner and Amy Slagoski) (Pick up boxed lunches from local team leaders, Katie-Lynn Roberts and Emily Williams; depart 8:00am) 3) Birding trip to local hotspot for both resident and migrant birds (Led by Dr. M. McRae) (Breakfast and pick up boxed lunches in McKay Community Room 6:30-7:00; depart 7am) 4) Bio Blitz: Marine lab visit with trip to field site to seine in seagrass beds for seahorses and pipefish (Led by Drs. H. Masonjones, E. Rose, B. Froeschke, R. Waggett) (Breakfast and pick up boxed lunches in McKay Community Room 6:30-7:00, depart 7:00am) <p>Other possibilities (see potential excursions list on SyngBio website)</p>
<p>2:00-5pm</p> <p>Various Rooms</p> <p>Cass Science Building</p>	<p>Technical sessions</p> <p><i>Captive Husbandry & Aquaculture Techniques</i> - Cass Building 186 (Building 31)</p> <p><i>Field Methods & Syngnathid Marking Techniques</i>- Cass Building 184 (31)</p> <p><i>IUCN Red Listing Workshop</i> - Cass Building 187 (Building 31)</p> <p><i>Modern Molecular Methods</i> - Cass Building 185 (Building 31)</p>
<p>5:00-6:30pm</p> <p>Cass Science Building</p>	<p>iSeahorse training (L. Aylesworth) Cass Building 187 (Building 31)</p>
<p>Evening</p>	<p>Free for participants. Participants have dinner on their own in Tampa</p>
<p>Thursday</p>	<p>May 18, 2017</p>
<p>7:30-8:30</p> <p>1st Floor Vaughn</p>	<p>Breakfast, Ultimate Dining (#44 on map)</p>
<p>8:30-9:15am</p> <p>Crescent Club</p>	<p>Syngnathid Husbandry and Aquaculture</p> <p><u>Keynote: Paula Carlson (USA)</u></p>



9th Floor Vaughn	Syngnathids in Public Aquaria – Husbandry Perspectives and Conservation Opportunities
<p>9:15-10:15am</p> <p>Crescent Club</p> <p>9th Floor Vaughn</p>	<p>Syngnathid Husbandry and Aquaculture (Moderator: Healy Hamilton)</p> <p>Steven Yong (USA): Using Association of Zoos and Aquariums (AZA) Species Survival Plan® (SSP) Programs as Resources for Conservation and Research</p> <p>Catherine Rousseau (Canada): Visible Elastomer Implant (VIE) use for medical management in syngnathids at the Aquarium du Québec</p> <p>Jorge Palma (Portugal): Climate induced temperature effects on growth performance and fecundity of <i>Hippocampus guttulatus</i></p> <p>Diego Luzzatto (Argentina): New opportunities for conservation and aquaculture using “rafting seahorses”</p>
10:15-11:00am	Coffee Break in Trustees’ Board Room
<p>11:00-12:00</p> <p>Crescent Club</p> <p>9th Floor Vaughn</p>	<p>Seadragons (Moderator: Leslee Matsushige)</p> <p>Leslee Matsushige (USA): Seadragons in Public Aquariums</p> <p>Kristen Aanerud-Smith (USA): Techniques in SeaDragon handling</p> <p>Laurel Johnson (USA): How to Train Your Dragon, Operant Conditioning of the Weedy Seadragon, <i>Phyllopteryx taeniolatus</i></p> <p>Erika Moss (USA): Closed System Production of <i>Americamysis bahia</i></p>
<p>12:00-1:30pm</p> <p>1st Floor Vaughn</p>	Lunch on campus, Ultimate Dining (# 44 on map)
<p>12:00-1:30pm</p> <p>President’s Conference Room</p> <p>9th Floor Vaughn</p>	Seahorse Identification Workshop (Riley Pollom) during lunch in President’s Conference Room on 9 th Floor of Vaughn Center.
<p>1:30-2:15pm</p> <p>Crescent Club</p>	<p>Syngnathid Conservation</p> <p><u>Keynote: Sarah Foster (Canada)</u></p>



9th Floor Vaughn	Turning national commitments into conservation action for seahorses
2:15-4:00pm Crescent Club 9th Floor Vaughn	<p>Syngnathid Conservation (Moderator: Nuno Monteiro)</p> <p>Riley Pollom (Canada): A Global Assessment of the Extinction Risk and Conservation Status of Syngnathiform Fishes</p> <p>Hongyue Qu (China): Seahorse resources and conservation in China</p> <p>Charity Mae Apale (Philippines): Citizen action is helping save Philippines seahorses and their seas</p> <p>Xiong Zhang (China): Using species distribution models and multiple sources of species data to inform seahorse conservation in China</p> <p>Tanvi Vaidyanathan (India): Impacts of an Extraction and Trade Ban on Exploitation for India’s Seahorses</p> <p>Lily M. Stanton (Canada): Expanded Ranges and New Habitat for Seahorses (<i>Hippocampus</i> spp.): Early Lessons from a Nascent Marine Citizen Science Programme</p> <p>Amanda Vincent (Canada): Taking conservation action for seahorses (and pipefishes)</p>
4:00-4:30	Coffee Break in Trustees’ Board Room
4:30-5:30pm Crescent Club 9th Floor Vaughn	<p>Final Panel discussion – The Future of Syngnathid Science</p> <p>Chairs:</p> <p>Conservation & Ecology (Amanda Vincent)</p> <p>Aquaculture & Husbandry (Paula Carlson)</p> <p>Evolution & Genomics (Adam Jones, Kenyon Mobley)</p>
6:30-10pm Florida Aquarium	<p>Symposium Dinner Banquet at Florida Aquarium</p> <p>Busses leave front of Vaughn Center starting 6pm</p>



Friday	May 19, 2017
8-10am	Participant Check Out in McKay Common Room (Building 20) (Dorm Keys Must Be Returned to Emily Rose (347-524-2291) Before Leaving)
9am-5pm	Meeting of the IUCN SSC Seahorse Pipefish and Stickleback Specialist Group in Cass Building 184 (Building 31)
9am-3pm	Meeting to update the Syngnathid Husbandry Manual in Cass Building 187 (Building 31)