



American Elasmobranch Society Quarterly Newsletter

Winter and Spring, 2006 2006(1-2)
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The Winds of Change

by Jeff Carrier

Given the weather calamities that beset the southern coastal United States and the changes that AES implemented in July at our annual meeting, it seemed somehow appropriate to take stock of the winds of change for 2005.

The devastation that our southern and Gulf coasts experienced this past summer is unparalleled in modern memory. New Orleans was the focal point of most of the publicity, but equally devastated were the coastal regions of Alabama and Mississippi, and Florida was not immune to the siege of 2005 and only slightly less destruction occurred in the state than in 2004.

Many of our research projects have been set back and many of our colleagues have been displaced or disrupted in some fashion. Our own work in the Dry Tortugas was hampered by the disappearance of small sections of islands and the emergence of newly formed land masses. Yet surrounding these “neonate” land masses, in water familiar to them for eons, were our finny friends and colleagues, apparently only slightly inconvenienced by these horrendous winds and waves. Nature is nothing if not resilient!

The same may be said of New Orleans and, as most of you probably know by now, our 2006 summer meetings will convene there in July. The exciting and interesting schedule includes two symposia, one on the *Biology of Skates* and a second on the *Biology of the Great White Shark*. See pages 10-19 for a complete schedule of all talks, posters, meetings and social events.

Changes also were adopted in the financial operating procedures for the American Elasmobranch Society. Our continued growth and increasing range of interests prompted the Executive Committee and the Board of Directors to propose changes in our budgetary operation and financial investment strategies. Foremost among the various actions that we undertook was the formation of a Finance Committee and the creation of the Society’s first line item budget.

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American Elasmobranch Society Winter/Spring Newsletter, 2006(1-2)

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Fall: October 30 (mailed 11/30)

Copy should reach the editor with sufficient time for review, as necessary. Printed copy, by mail or FAX, is welcome, but material submitted electronically is preferred.

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The American Elasmobranch Society (AES) is a professional organization with membership open to all professionally qualified individuals without regard to gender, race, or other minority affiliations. The AES does not condone or support activities that would normally be considered offensive, embarrassing, or harassing to either sex, or to members of any racial or otherwise identifiable group.

As a part of our annual operating budget, we increased our commitment to and budgeted for continued support of student travel and research for continuing student members in good standing. In addition, our reliance on annual, specialized symposia and our need to adequately fund them resulted in an increase in our annual allocation to fund symposium organization and a renewed effort to bring symposia to publication with the proceedings made available to AES members at a significant cost savings.

Clearly these increased financial demands required additional and stable funding and a dues increase was also adopted last summer, our first increase in well over ten years! Our rates are still among the lowest for societies we commonly join. But we felt that after twenty years of existence, some financial stability was not only desirable, but a necessity. To further that end, we enlisted the aid of a financial planner and investigated ways to maximize the yield of the Society's many endowments (restricted funds) while protecting their initial investment ("corpus"), ensure a significant yield on our general operating funds, and diversify our investments to ensure minimal investment risk for all fund categories with maximal return on investments. At the time of this writing, we have completed that process and have turned over the management of these various funds to an investment management team. We hope to report favorably on the success of these investment strategies in July.

It was not without some trepidation that we adopted a dues increase. There is always the fear that members will choose not to renew, even though our increase was modest by any standard. In the end we decided that our membership was loyal and that the very tangible returns to Society members would persuade a significant number of AES members to continue to support our Society. If you have not yet renewed for 2006, please do so and thereby justify the confidence we have in our sustaining membership.

Best wishes for an exciting New Year, and we will see you in New Orleans in July, with fair winds and a following sea...



Meeting Reminders

1) The presentation schedule has been posted to the meeting web page at <http://www.dce.ksu.edu/jointmeeting/>. In addition, the complete schedule may be viewed on pages 10-19 of this Newsletter. This is a tentative schedule and is subject to minor changes due to cancellations. If you are a presenter, locate your date/time/room of presentation on these schedules.

2) If you are an oral presenter, please review the information on the web site under "Presentation Information." It provides instructions on how to prepare and save your presentation and what equipment and software is available at the hotel.

Please contact Sharon Brookshire at sharonb@ksu.edu with additional questions.

3) If you are a poster presenter, please review the information for poster presentations on the web site under "Presentation Information." It provides information and guidelines for presentations. Set up and tear down times can be found on the "Daily/Meeting Schedule" link.

Please contact Heide McBride at hmcbride@ksu.edu with additional questions.

4) The local hosts are organizing a service project for Wednesday, July 12th, with the New Orleans Habitat for Humanity. Volunteers will work from about 8:00 AM until 3:30 PM, helping to build a home in one of the areas impacted by Hurricane Katrina. As with other Habitat projects, persons of all skill levels are welcome.

Anyone interested in joining this effort should contact Mary White at mwhite@selu.edu or 985-549-3508.

5) If you have not made your hotel reservation, do so right away. The block of rooms is filling rapidly. Instructions for making your reservation are on the ASIH web site.

6) If you wish to add to your registration (meal tickets, shirts, field trips) you may do so from "Registration Information" on the web site at <http://www.dce.ksu.edu/jointmeeting/>.

We look forward to seeing you in New Orleans!
Kansas State University
Conference Registration





is scheduled for Sunday evening, July 16, and will take place at **Broussard's** (see www.broussards.com), a marvelous French Quarter restaurant.

The restaurant and adjacent historic museum are 1830's era buildings that fully capture the spirit of the French Quarter. The meal will be served inside and cocktails and the auction will be held in the charming courtyard. The adjacent museum courtyard will be opened exclusively for AES, allowing us a unique opportunity to visit with drink in hand. Food should be superb and the ambiance memorable. For those who wish to carry on the celebration after the event, Bourbon Street is just a stumble away and at that hour festivities will just be warming up!

You may pay for and pick up your Banquet tickets at the AES Table in New Orleans. (Don't forget to bring your membership card!) Please make plans to visit the AES Table early so that final numbers and entrée choices can be provided to the caterer.

However, if one travels outside of the quarter, the effects of Katrina are devastating. Mary White, one of the local chairs, is working with Habitat for Humanity to arrange for a "work day" building houses in the lower Ninth Ward, one of the hardest hit areas. The Joint Meeting is trying to arrange this volunteer event for the "zero" day of the meeting (12 July 2006). If you want to volunteer but cannot because you will be in a board or exec meeting that day, you will have an opportunity to make cash donations to Habitat for Humanity. We will post messages on the ASIH site and on Elasmol-L once we have the details about opportunities to volunteer.

The Joint Meeting's decision to continue to meet in New Orleans in 2006 following the hurricanes of 2006 is intended to help one of America's great cities heal from the effects of this natural disaster. New Orleans is a city that historically has opened its doors to visitors, sharing its unique culture with millions of people from throughout the world. At this time of need, what better way to repay this city than by planning to attend and leaving some tourist dollars behind to help locals get back on their feet!

George H. Burgess
AES-ASIH Liaison and Local Chair



The AES Bookstore



Sharks and Survival (1963) edited by Perry W. Gilbert

Three sets of chapter reprints are now available:

Set #1 (Shark Attacks of the World) = chapters 1, 2, 3, 10, 11, 12, 13, 14, and Appendix.

Set #2 (Meeting the Shark Hazard Problem) = chapters 15, 16, 18, 19, 20, and 21.

Set #3 (Captive Maintenance and Sensory Integration) = chapters 4, 5, 6, 8, 9, and 22.

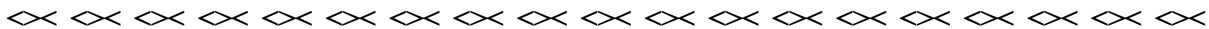
Prices (for shipping and handling only) for each "free" set in US\$ and made payable to AES:

AES Member price in the US: \$8.00 per set
Non-member price in the US: \$10.00 per set

Foreign AES Member price: \$10.00 per set
Foreign Non-member price: \$12.00 per set

Sets #1 and #2 are available from George H. Burgess (gburgess@flmnh.ufl.edu)

Set #3 available from John Morrissey (see below)



Proceedings of the Elasmobranch Endocrinology Symposium held at the 13th Annual Meeting of the AES in Seattle, Washington

This special issue of the *Journal of Experimental Zoology* is available (from John Morrissey) at discount prices (AES members = \$20; Non-members = \$30; prices include shipping)! Volume contents can be found at: <http://www.mote.org/~jimmg/ees1.htm>

For All Orders to John Morrissey:

Prices are in US\$. Orders must be pre-paid via MasterCard or VISA, or with a check or international money order drawn on a US bank (or a foreign bank with a US branch) and made payable to "American Elasmobranch Society."

Send orders to:

John F. Morrissey, Biology Department, 114 Hofstra University, Hempstead, NY 11549-1140
516-463-5517; FAX 516-463-5112, john.f.morrissey@hofstra.edu



Student Affairs Committee

The SAC is busy preparing for the 2006 AES conference in New Orleans, Louisiana. Be sure check out the student workshop, student business meeting, all the great new AES merchandise, and don't forget to volunteer to help out at the AES table! The duties and contact information of the Student Activities Committee for the 2005-2006 term are:

Mason Dean - Chair
Ecology & Evolutionary Biology
University of California at Irvine
Irvine, CA 92697-2525
mdean@uci.edu

Lisa Whitenack - Merchandise/Online Shop
Dept. of Biology
University of South Florida
Tampa, FL 33620
whitenac@mail.usf.edu

Matt Ajemian - Donation Program
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Hofstra University
Hempstead, NY 11550
Matthew.J.Ajemian@hofstra.edu

Tobey Curtis - Auction Coordinator
Florida Museum of Natural History
University of Florida
Gainesville, FL 33261
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Biological Sciences
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Boca Raton, FL 33431
lmacesic@fau.edu

Jason Blackburn - Workshop Coordinator
Coastal Fisheries Institute
Louisiana State University
Baton Rouge, LA 70803
jblack6@lsu.edu

All SAC members may be contacted simultaneously at sac-l@elasmoworld.org.

Return that reindeer sweater you got for Christmas
and go to the AES store!

All AES merchandise, including the new AES sweatshirts (\$28 for crewnecks, \$30 for hooded sweatshirts, plus S&H), can be found at: <http://www.elasmoworld.org/sac/aesstore.html>

Wish you had the official crutches of AES? Been searching for a ÅgBite Me _ AESÅh bumper sticker? Contact Lisa Whitenack at whitenac@helios.acomp.usf.edu with all of your merchandise ideas!

2005 Auction Follow-up

The 2005 SAC auction and raffle were great successes and together rose over \$3,000. While everyone at the meeting witnessed Dr. Phil Motta carry out his end of the tighty-reddies deal, the SAC would like to assure you that Dr. Stephen Kajiura did wear the shark hat for his first lecture of Elasmobiology at FAU. Thanks again to all who contributed, and to Phil and Steve for being such good sports!



GET INVOLVED WITH THE SAC – HERE'S HOW...

Going once...

Always be on the lookout for student auction merchandise and donations. Every item that gets auctioned helps support student travel and research. Contact Tobey Curtis at tcurtis@flmnh.ufl.edu for information on where to send your auction items.

Corporate Donations Project

One of the ways the SAC raises money for student research and travel is through corporate donations. We contact companies that incorporate elasmobranchs in their logo (San Jose Sharks, Great White Paper, Corpus Christi (TX) Ice Rays, etc.), or businesses that sell elasmobranch-related items (t-shirts, jewelry, etc.), and ask them for monetary or merchandise donations. If you know of an organization or business that could be a potential donor, please send the contact information to Matt Ajemian at Matthew.J.Ajemian@hofstra.edu.

The SAC appreciates your support in raising student funding.

Student Positions

After this year's meeting, there will be an open position for the Merchandise/Online Shop Coordinator. Contact the SAC at sac-1@elasmoworld.org if you are interested.

Don't forget to check out the SAC web page and the AES online store at <http://www.elasmoworld.org/sac>.

Shark Bytes
Postings from Around the World



10th Meeting of the EEA
European Elasmobranch Association
Hamburg, Germany
November 10–12, 2006



Zoological Institute of the University of Hamburg

First call for papers

The Organizing Committee of the German Elasmobranch Society (D.E.G.) and the Zoological Institute and Museum of the University of Hamburg invites you to attend the 10th EEA Annual Science Conference held at the weekend of 10th – 12th of November 2006 at the Zoological Institute of the University of Hamburg.

Preliminary schedule:

Friday, November 10th:

Annual Plenary Assembly of the EEA Board of Directors

Evening “jaw-breaker-meeting” at the museum

Saturday, November 11th and Sunday, November 12th:

Annual Scientific Meeting: scientific presentations and public exhibition & events

Monday, November 13th:

Optional tour of Hamburg attractions

Invited are contributions dealing with any aspects of cartilaginous fishes, past, present or future, dealing with, but not restricted to, the topics of:

Conservation & Fisheries Management

Ecology & Behaviour

Morphology & Anatomy

Physiology & Genetics

Taxonomy & Systematics.

Contributors from all parts of Europe and beyond are invited to further enhance communication and the exchange of information. Registration and abstract forms, and further details including accommodation possibilities, travelling routes and venue location are available as downloads on the D.E.G. website at www.elasmo.de.

For registration, please fill in the registration and the abstract form for your presentation and send it to EEA2006@elasmo.de

Please provide your full registration details by 15th of October 2006.

We are hoping to see you all in November!

With best regards from Hamburg,
EEA Organizing Committee of the German Elasmobranch Society (D.E.G.)

**Cetaceans, sea turtles and sharks of the northern Adriatic Sea
20th - 21st October 2006**

Hall “Alberto Marvelli” - Provincia di Rimini

FIRST CALL FOR PAPERS

Within the framework of the project ADRIA-Watch “An Observatory of the Great Vertebrates of the Northern Adriatic sea” we have the pleasure to invite you to attend the conference “Cetaceans, sea turtles and sharks of the northern Adriatic Sea.”

Provincia di Rimini, with the collaboration of Fondazione Cetacea, will be hosting the Conference that will be held at the Provincia di Rimini palace, Hall “Alberto Marvelli,” in Rimini.

Papers are now invited for these dates.

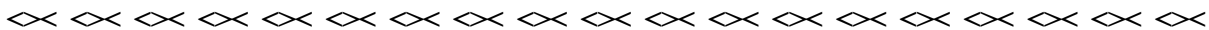
The main theme of the meeting will be information aimed to public awareness and education.

Sessions may include as well:

- Conservation and management
- Distribution and abundance
- Interaction with fisheries
- Biology and behaviour
- Morphology, molecular biology and genetics

Presentation, exhibition and poster opportunities will also be available.

For more information, please contact:
ambientemare@fondazionecetacea.org
c.berretta@provincia.rimini.it



**A great, big AES welcome to
Samantha Abigail McCandless
Born: Feb 1, 2006
Morphometrics: 8 lbs 13.2 oz**





(* = Presenter; Gruber = Gruber Award Candidate; Carrier = Carrier Award Candidate)

~~~~~ **WEDNESDAY, JULY 12** ~~~~~

8:00 AM – Noon: Executive Committee Meeting (Bayside C)

2:00 – 5:00 PM: Board of Directors Meeting (Bayside C)

7:00 pm – ???: Informal No-Host Social

Sheraton Hotel, Lobby Bar (1st Floor) and Lagniappe (2nd Floor)

~~~~~ **THURSDAY, JULY 13** ~~~~~

9:00 – Noon: Plenary Session (Grand Ballroom C)

SKATE SYMPOSIUM (Borgne)

Moderator: EBERT

1:30 PM *BIZZARRO, JOSEPH J., ROBINSON, HEATHER J., RINEWALT, CHRISTOPHER S., AND EBERT, DAVID A. Comparative feeding ecology of four sympatric skate species (*Bathyraja* and *Raja* spp.) off central California

1:45 PM *ELLIS, JIM; PARKER-HUMPHREYS, MATT. The biology of smalleyed ray *Raja microocellata* in the Bristol Channel

2:00 PM *ROBINSON, HEATHER J.; CAILLIET, G.M.; EBERT, D.A. Dietary analysis of the longnose skate, *Raja rhina* (Jordan and Gilbert, 1880), in California waters

2:15 PM *TRELOAR, MICHELLE A.; LAURENSEN, LAURIE J. B.; STEVENS, JOHN D. Dietary habits and overlap in the rajid species in southeastern Australian waters

2:30 PM *RINEWALT, CHRISTOPHER S.; EBERT, DAVID A.; CAILLIET, GREGOR M. Feeding habits of the sandpaper skate, *Bathyraja kincaidii* (Garman, 1908), from central California, U.S.A.

2:45 PM *BETHEA, DANA M.; HALE, LORAIN. Diet of the roundel skate *Raja texana* from the northern Gulf of Mexico

3:00 – 3:30 PM: *BREAK*

3:30 PM *STEVENSON, DUANE E.; ORR, JAMES W.; HOFF, GERALD R.; McEACHRAN, JOHN D. The skates of Alaska: Distribution, abundance, and taxonomic progress

3:45 PM *McEACHRAN, JOHN D.; CARVALHO, MARCELO R. Evolutionary biology of skates (Chondrichthyes: Rajidae)

4:00 PM *LAST, PETER R.; GLEDHILL, DANIEL C. The Maugean Skate (*Zearaja* sp.) — a micro-endemic, Gondwanan relict from Tasmanian estuaries

4:15 PM *de CARVALHO, MARCELO R.; GOMES, ULISSES L. A systematic overview of the Brazilian skate fauna (Chondrichthyes: Rajidae)

4:30 PM *NATANSON, LISA J.; SULIKOWSKI, JAMES A.; KNEEBONE, JEFF; TSANG, PAUL C.W. Age and growth of the smooth skate, *Malacoraja senta*, from the western Gulf of Maine

6:30 PM: Group Photographs – Aquarium of the Americas

7:00 – 10:00 PM: JMIH Reception – Aquarium of the Americas

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 ~~~~~ **FRIDAY, JULY 14** ~~~~~  
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**SKATE SYMPOSIUM (Borgne)****Moderator: SULIKOWSKI**

- 8:00 AM \*McPHIE, ROMNEY P.; CAMPANA, STEVEN E. Age and growth estimates of four species of northwest Atlantic skate (Family Rajidae) on the eastern Scotian Shelf
- 8:15 AM \*DAVIS, CHANTE D.; CAILLIET, GREGOR M.; EBERT, DAVID A. Age and growth of the rough-tail skate, *Bathyraja trachura*, (Gilbert, 1892) from the eastern North Pacific
- 8:30 AM FRANCIS, MALCOLM P. Habitat, movements and life history of the deepwater Antarctic starry skate, *Amblyraja georgiana*
- 8:45 AM \*MATTA, BETH; GUNDERSON, DONALD. Age and growth of the Alaska skate, *Bathyraja parmifera*
- 9:00 AM GBURSKI, CHRISTOPHER M. Age and growth of the big skate (*Raja binoculata*) and the longnose skate (*Raja rhina*) being targeted in the Gulf of Alaska
- 9:15 AM \*KULKA, DAVID W.; MIRI, CAROLYN M.; SIMPSON, MARK R. Biogeography, growth and maturity of the skate complex on the Grand Banks, northeast Newfoundland and Labrador Shelf

9:30 – 10:00 AM: *BREAK*

- 10:00 AM (Gruber) \*MORSON, JASON; MORRISSEY, JOHN. Morphological variation in the electric organ of *Leucoraja erinacea* and its possible role in courtship
- 10:15 AM \*KNEEBONE, J.; FERGUSON, D.E.; SULIKOWSKI, J.A.; TSANG, P.C.W. Endocrinological evidence for differences in the annual reproductive cycles of two sympatric skate species from the Gulf of Maine
- 10:30 AM \*LUER, CARL A.; WALSH, CATHY J.; WYFFELS, JENNIFER, T.; BODINE, A.B. Reproductive biology of the clearnose skate, *Raja eglanteria*, in captivity
- 10:45 AM \*CASTILLO-GÉNIZ, JOSE LEONARDO; SOSA-NISHIZAKI, OSCAR; MENDEZ-LOEZA, IVAN; RODRIGUEZ-MEDRANO, MARIA DEL CARMEN. Observations on the reproductive biology of *Raja inornata* (Jordan and Gilbert, 1881), *R. velezi* (Chirichigno, 1973), and *R. rhina* (Jordan and Gilbert, 1880) in northern Gulf of California
- 11:00 AM \*COLONELLO, JORGE H; GARCÍA, MIRTA L; LASTA CARLOS A. Reproductive biology of *Rioraja agassizi* from coastal southwest Atlantic between northern Uruguay (34°S) to northern Argentina (42°S)
- 11:15 AM SULIKOWSKI, JAMES A. From histology to hormones: Advances in the study of skate reproductive biology and the potential use in conservation management
- 11:30 AM \*EBERT, DAVID A.; BIZZARRO, JOSEPH J. Standardized diet composition and trophic levels of skates
- 11:45 AM EBERT, DAVID A.; SULIKOWSKI, JAMES A. “Concluding remarks”

Noon – 1:30 PM: SAC Business Meeting (Nottoway; no lunch provided)

**MOVEMENTS & HABITAT I****Moderator: STEVENS**

- 1:30 PM \*STEVENS, JOHN D; BRADFORD, RUSSELL W; WEST, GRANT J. Satellite tagging of pelagic sharks off eastern Australia
- 1:45 PM (Gruber) \*CARTAMIL, DANIEL P.; WEGNER, NICK; ALBERS, SCOTT; SEPULVEDA, CHUGEY; BAQUERO, ANDRES; GRAHAM, JEFFREY B. Acoustic telemetry studies of common thresher shark, *Alopias vulpinus*, in the Southern California Bight
- 2:00 PM (Gruber) \*DAWSON, CYNDI L.; STARR, RICHARD M. Movements and habitat utilization of the Prickly Shark, *Echinorhinus cookei*, in the Monterey Submarine Canyon
- 2:15 PM \*McFARLANE, GORDON. A.; KING, JACQUELYNNE R. Migration patterns of Big

- Skate (*Raja binoculata*) in British Columbia waters
- 2:30 PM (Gruber) \*CARLISLE, AARON B.; STARR, RICHARD M.; CAILLIET, GREGOR M.; EBERT, DAVID A. Patterns of movement and habitat utilization of female leopard sharks in Elkhorn Slough, California
- 2:45 PM \*CONRATH, CHRISTINA L.; MUSICK, JOHN A. Tracking juvenile sandbar sharks, *Carcharhinus plumbeus*, in the coastal bays and lagoons of the Eastern Shore of Virginia using a passive acoustic system
- 3:00 PM \*CURTIS, TOBEY H.; BURGESS, GEORGE H.; SNELSON, FRANKLIN F. Daily movements and habitat use of immature bull sharks, *Carcharhinus leucas*, in the Indian River Lagoon System, Florida
- 3:15 PM \*HEUPEL, MICHELLE R.; SIMPFENDORFER, COLIN A.; DOERING, PETER. A river runs: Examination of habitat use and response to freshwater flow by bull sharks
- 3:30 PM (Gruber) \*FRANKS, BRYAN R.; GRUBER, SAMUEL H.; SPOTILA, JAMES R. Behavioral strategies of space use by young lemon sharks (*Negaprion brevirostris*) in their primary nursery areas
- 3:45 PM \*PRATT, HAROLD L.; CARRIER, JEFFREY C.; HUPP, AMY L.; PRATT, THEO C. Diel movements of adult nurse sharks, *Ginglymostoma cirratum*, in the Dry Tortugas, Florida reproductive refuge

#### POSTER SESSION: 4:00-6:00 PM (Napoleon Ballroom)

- #75 (Carrier) - \*CHARVET-ALMEIDA, PATRICIA; ALMEIDA, MAURICIO P.; SILVA, ANA JULIA A.; VIANA, ANDERSON S.; ROSA, RICARDO S. Polychromatism of the freshwater stingray *Potamotrygon leopoldi* (Chondrichthyes: Potamotrygonidae)
- #76 - \*DEAN, MASON N.; GORB, STANISLAV; CHIOU, WEN-AN; SUMMERS, ADAM P. Ontogeny of calcification of the tessellated skeleton
- #77 - \*DOLCE, JOCELYNE L.; WILGA, C.D. Gill slit morphologies among extant sharks
- #78 (Carrier) - \*SIEGFRIED, KATE I.; SANSONO, BRUNO Testing methods for estimating natural mortality in fish populations: A simulation study
- #79 - GALEANA-VILLASEÑOR, ILDEFONSO; \*GALVAN-MAGAÑA, FELIPE. Longline hook selectivity in shark capture in the southern Gulf of California
- #80 - CHABOT, CHRIS L. Population genetics of the Tope (*Galeorhinus galeus*) in response to California fishery pressure
- #81 (Carrier) - \*BENZAKEN, ZEHEV; DE ARAUJO, MARIA LÚCIA GÓES. Status of freshwater stingray ornamental trade: From Rio Negro to the world
- #82 - \*KUME, GEN; YAMAGUCHI, ATSUKO. Age, growth and maturity of fanray *Platyrrhina sinensis* in Ariake Bay, Japan
- #83 - \*EBERT, D.A.; BIZZARRO, J.J.; HAAS, D.L.; NEWAY, A.L.; AINSLEY, S.M.; SMITH, W.D.; CAILLIET, G.M. Age, growth, and reproduction of six Alaskan skates (Chondrichthyes: Rajiformes: *Bathyraja* and *Raja*)
- #84 - \*MÁRQUEZ-FARIAS, J. FERNANDO. Size of maturity of *Raja velezi* taken in the Gulf of California, Mexico
- #85 (Carrier) - TRELOAR, MICHELLE A.; LAURENSEN, LAURIE J. B.; STEVENS, JOHN D. Age and growth of four skates commonly caught as by-catch in the southeast Australian fisheries
- #86 - \*MONTANO, MELINDA R.; GELSLEICHTER, JIM. Ethoxyresorufin-O-deethylase (EROD) activity in bonnethead sharks (*Sphyrna tiburo*) and their relationship with infertility
- #87 - \*GUAJARDO, MEGAN B.; GELSLEICHTER, JIM. Thiamine concentrations in egg yolk of bonnethead sharks (*Sphyrna tiburo*) and their association with infertility
- #88 - \*FERGUSON, D.E.; KNEEBONE, J.; SULIKOWSKI, J.A.; TSANG, P.C.W. Is there a relationship between the steroid hormone progesterone and egg case production/dynamics in oviparous elasmobranchs?

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- #89 (Carrier) - \*MEREDITH, TRICIA L.; KAJIURA, STEPHEN M.; LUER, CARL A. Olfactory responses of the clearnose skate, *Raja eglanteria*
  - #90 - \*SANDOVAL-LONDOÑO, ALEJANDRO; CASTAÑEDA-SUAREZ, DAVID; GALVAN-MAGAÑA, FELIPE; GOMEZ-CANCHONG, PAUL. Feeding habits of the hammerhead sharks *Sphyrna zygaena* and *Sphyrna lewini* in Ecuador
  - #91 - \*PARSONS, KRISTENE T.; NEWMAN, STEVEN P.; HANDY, RICHARD D.; GRUBER, SAMUEL H. Dietary exposure to trace metals in nursery-bound lemon sharks (*Negaprion brevirostris*) at Bimini, Bahamas
  - #92 (Carrier) - \*IMHOFF, JOHANNA L.; GRUBER, SAMUEL H.; LANKFORD, THOMAS E. Foraging ecology of juvenile lemon sharks in Bimini, Bahamas: Utilizing ultrasonic accelerometry to monitor feeding
  - #93 - \*RAMSAY, JASON B.; WILGA, CHERYL A. D. Anatomy and functional morphology of the feeding apparatus of whitespotted bamboo sharks, *Chiloscyllium plagiosum*
  - #94 (Carrier) - \*WHITENACK, LISA B.; SIMKINS, DANIEL C.; MOTTA, PHILIP J. Biology meets engineering: biomechanics and two-dimensional finite element analysis of carcharhinid teeth
  - #95 - CIACCIO, JENNIFER. Increase in predatory efficiency of hatchling whitespotted bamboosharks, *Chiloscyllium plagiosum*
  - #96 (Carrier) - \*PIERCY, ANDREW; SAMUEL, ASHA. Evaluation of fatty acid signatures in diet analysis of elasmobranch fishes: A test using the Atlantic Stingray
  - #97 - ORLOV, ALEXEI; \*COTTON, CHARLES; FOSSEN, INGE; DYB, JAN ERIC. New data on two deepwater skates *Bathyraja richardsoni* and *Rajella kukujevi* from the North East Atlantic
  - #98 (Carrier) - \*MARSHALL, ANDREA D.; BENNETT, MICHAEL B. Impacts of shark predation on *Manta birostris*
  - #99 - \*MAIA, ANABELA; MARQUES, JOANA F.; CABRAL, HENRIQUE N. Parasitic fauna of the digestive tract of Shortfin Mako, *Isurus oxyrinchus*, off Portugal, NE Atlantic
  - #100 - \*ZEMEL, HAYLEY L.; LOWE, CHRISTOPHER G. Temperature sensitivity of the round stingray, *Urobatis halleri*
  - #101 - HEUPEL, MICHELLE; CARLSON, JOHN; \*SIMPENDORFER, COLIN. Shark nursery areas: Concepts, definition, characterization and assumptions
  - #102 - \*CONRATH, CHRISTINA L.; MUSICK, JOHN A. A delineation of the Eastern Shore of Virginia summer nursery habitat of juvenile sandbar sharks, *Carcharhinus plumbeus*
  - #103 - \*HOFFMAYER, ERIC R.; GRAY, GARY J.; SHELLEY, JOHN P. Preliminary assessment of short-term movement patterns of young bull sharks in Davis Bayou, Mississippi, and notes on their concentration in Mississippi bayous as a result of Hurricane Katrina
  - #104 - \*OLIVER, GREGORY L.; LOVE, JOSEPH W. Niche overlap between spiny and smooth dogfish from inshore and offshore winter habitats
  - #105 - KUHNZ, L.A.; \*BIZZARRO, J.J.; CHANEY, L.; AND EBERT, D.A. *In situ* observations of deep-living skates and rays in the central and eastern North Pacific
  - #106 - HEUPEL, MICHELLE R. Shark tracker: An interactive aquarium display for public education
  - #107 - BELLEGGIA, MAURO; MABRAGAÑA, EZEQUIEL; SCENNA, LORENA; BARBINI, SANTIAGO A.; \*FIGUEROA, DANIEL E.; DIAZ DE ASTARLOA, JUAN M.; COUSSEAU, MARIA B. Food habits of *Bathyraja brachyurops* (Chondrichthyes, Rajidae) on the Argentinean continental shelf
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 ~~~~~ **SATURDAY, JULY 15** ~~~~~  
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REPRODUCTION (Borgne)**Moderator: WYFFELS**

- 8:00 AM *SERRA-PEREIRA, BÁRBARA; JOYCE, PEDRO; FIGUEIREDO, IVONE;
 FARIAS, INÊS; MOURA, TERESA; NEVES, ANA; GORDO, LEONEL S.
 Reproductive dynamics of *Leucoraja naevus* and the role of oviducal gland
- 8:15 AM YAMAGUCHI, ATSUKO. Reproductive biology of Longheaded Eagle Ray, *Aetobatus flagellum*, in Ariake Bay, Kyushu, Japan
- 8:30 AM (Gruber) *CHARVET-ALMEIDA, PATRICIA; VIANA, ANDERSON S.; ALMEIDA, MAURICIO P.; ROSA, RICARDO S. Reproductive biology of the freshwater stingray *Potamotrygon leopoldi* (Chondrichthyes: Potamotrygonidae)
- 8:45 AM *MULL, CHRISTOPHER G.; LOWE, CHRISTOPHER G.; YOUNG, KELLY A. Plasma testosterone concentrations and GSI as predictors of mating periodicity in male round stingrays (*Urobatis halleri*)
- 9:00 AM (Gruber) *MARSHALL, ANDREA D.; BENNETT, MICHAEL B. Reproductive ecology of *Manta birostris*
- 9:15 AM *HENNINGSEN, ALAN D.; RASMUSSEN, L.E.L.; WHITAKER, B.R.; MURRU, F.L.; VIOLETTA, G. Serum levels of steroid hormones in captive adult male sand tiger sharks, *Carcharias taurus*, and their relation to sexual conflicts

9:30 – 10:00 AM: *BREAK*

REPRODUCTION (continued)**Moderator: HENNINGSEN**

- 10:00 AM *BEJARANO, MARCELA; ROBAYO, ADRIANA; JÁUREGUI, AMINTA.
 Observations of courtship and mating in the Nurse Shark (*Ginglymostoma cirratum*), in Cartagena, Colombia
- 10:15 AM (Gruber) *HUVENEERS, CHARLIE; HARCOURT, ROB; OTWAY, NICK.
 Reproductive characteristics of the Ornate Wobbegong Shark (*Orectolobus ornatus*) for population assessment
- 10:30 AM *PORTNOY, DAVID S.; PIERCY, ANDREW N.; MUSICK, JOHN A.; BURGESS, GEORGE H.; GRAVES JOHN A. Patterns of polyandry in the sandbar shark, *Carcharhinus plumbeus*, in the western North Atlantic
- 10:45 AM *DALY-ENGEL, TOBY S.; GRUBBS, R. DEAN; BOWEN, BRIAN W.; TOONEN, ROBERT J. Frequency of multiple paternity in an unfished tropical population of sandbar sharks (*Carcharhinus plumbeus*)
- 11:00 AM SULIKOWSKI, JAMES A.; DRIGGERS III, WILLIAM B.; *FORD, TRAVIS S.; BOONSTRA, ROXANE K.; CARLSON, JOHN K. Reproductive cycle of the blacknose shark, *Carcharhinus acronotus*, in the Gulf of Mexico
- 11:15 AM *WYFFELS, JEN; MASUDA, MOTOYASU; SAKAI, JUNICHI; ITOH, YOSHIAKI
 Transient anatomical features of *Scyliorhinus torazame* embryos
- 11:30 AM *GELSLEICHTER, JIM; MANIRE, CHARLES A.; RASMUSSEN, L.E.L.; SZABO, NANCY J.; TYMINSKI, JOHN P.; CORTÉS, ENRIC; CARLSON, JOHN; COX, H.; VARELA, ELDA; KOLLITZ, ERIN. Variations in breeding success and reproductive endocrinology of bonnethead sharks (*Sphyrna tiburo*) from four Florida estuaries
- 11:45 AM (Gruber) *TYMINSKI, JOHN P.; GELSLEICHTER, JIM; MOTTA, PHILIP J.
 Bonnethead shark (*Sphyrna tiburo*) androgen receptor: cDNA cloning and tissue specific expression through the male reproductive cycle

Noon – 2:00 PM AES Student Workshop (Nottoway)

Better Scientific Illustrations and Visual Aids (Hilton, Mandica, Ramsey)

SYSTEMATICS & BIOGEOGRAPHY**Moderator: BURGESS**

- 1:30 PM MABRAGAÑA, EZEQUIEL; *FIGUEROA, DANIEL E.; SCENNA, LORENA B.; DIAZ DE ASTARLOA, JUAN M.; COLONELLO, JORGE H.; MASSA, ANA M. Chondrichthyan egg cases from the southwestern Atlantic
- 1:45 PM ORLOV, ALEXEI; *COTTON, CHARLES; FOSSEN, INGE; DYB, JAN ERIC. New data on two deepwater skates *Bathyraja richardsoni* and *Rajella kukujevi* from the North East Atlantic
- 2:00 PM *FARIA, VICENTE V.; McDAVITT, MATTHEW T. Taxonomy review of the Sawfish (Chondrichthyes, Pristidae)
- 2:15 PM (Gruber) *BARNETT, LEWIS A.K.; DIDIER, DOMINIQUE A.; EBERT, DAVID A.; LONG, DOUGLAS J. Deep-water submersible sampling for taxonomic research: Discovery of *Hydrolagus* from the Galápagos Islands (Chimaeriformes: Chimaeridae)
- 2:30 PM *SHIVJI, MAHMOOD; PIKITCH, ELLEN; MAGNUSSEN, JENNIFER; CHAPMAN, DEMIAN. Application of genetic forensic tools in shark fishery monitoring and law enforcement
- 2:45 PM *NANCE, HOLLY A. Population genetics of the scalloped hammerhead shark, *Sphyrna lewini*, in the Gulf of California
- 3:00 PM *ORR, JAMES W.; STEVENSON, DUANE E.; HOFF, GERALD R.; McEACHRAN, JOHN D. Recent progress in the taxonomy and systematics of the skates (Rajidae) of Alaska and the North Pacific
- 3:15 PM (Gruber) *YOUNG, JOY; BENZ, GEORGE W.; GRUBER, SAMUEL H. Rapid colonization of neonate lemon sharks by monogeneans
- 3:30 – 5:30 PM Business Meeting (Borgne)
- 7:00 – 10:00 PM Picnic – Audubon Zoo – Swamp Exhibit

~~~~~ **SUNDAY, JULY 16** ~~~~~

**FISHERIES (Bayside B & C)****Moderator: GRUBBS**

- 8:00 AM \*RAMIREZ, GONZALEZ J; VILLAVICENCIO GARAYZAR C. Bioeconomy of the shark fishery on the western coast of Baja California Sur, Mexico
- 8:15 AM (Gruber) \*TAYLOR, IAN G.; GALLUCCI, V. F. Integration of historic and recent data for population dynamics modeling of spiny dogfish in the Northeast Pacific
- 8:30 AM \*MANNING, MICHAEL J.; HANCHET, STUART; STEVENSON, MICHAEL L. Species at Risk or Cockroach of the Sea? Abundance of Spiny Dogfish (*Squalus acanthias*) in the New Zealand Exclusive Economic Zone
- 8:45 AM \*CARLSON, JOHN K., OSBORNE, JASON; SCHMIDT, THOMAS W. Monitoring the recovery of Smalltooth Sawfish using standardized indices of relative abundance
- 9:00 AM \*SIMPENDORFER, COLIN A; WILEY, TONYA R. Can habitat suitability models be used to help recover the smalltooth sawfish population?
- 9:15 AM PONDELLA, DANIEL J., II. The fall and rise of nearshore sharks in the southern California bight
- 9:30 – 10:00 AM: *BREAK*

**FISHERIES (continued)****Moderator: CAMPANA**

- 10:00 AM \*GRUBBS, R. DEAN; ROMINE, JASON G. Long-term population stability of large coastal sharks in the main Hawaiian Islands
- 10:15 AM \*GRACE, MARK; INGRAM, WALTER; DRIGGERS, WILLIAM. Utilizing fisheries independent bottom longline catch data to determine optimum sampling levels

- for coastal sharks
- 10:30 AM \*GERVELIS, BRIAN J.; MELLO, JOSEPH J. Incidental catch of sharks from gillnet and otter trawl fisheries from North Carolina to Maine as seen by the Northeast Fisheries Observer Program
- 10:45 AM \*MORGAN, ALEXIA; BURGESS, GEORGE H.; CARLSON, JOHN. The capture depth, time and hooked survival rate for bottom longline caught sharks
- 11:00 AM \*CORTÉS, ENRIC; BROOKS, ELIZABETH; APOSTOLAKI, PANAYIOTA; BROWN, CRAIG A. Stock assessment of dusky sharks (*Carcharhinus obscurus*) in the U.S. Atlantic and Gulf of Mexico
- 11:15 AM \*GALLUCCI, VINCENT; IAN TAYLOR. Use of reproductive value in the conservation and management of exploited shark populations
- 11:30 AM VILLAVICENCIO-GARAYZAR, CARLOS. Actual status of NOM-029-PESC-2004
- 11:45 AM \*GOLDMAN, KENNETH J.; MUSICK, JOHN A. Demographic analysis of salmon sharks in the North Pacific; testing the intrinsic rebound potential model

**SENSORY BIOLOGY/FOOD & FEEDING I (Borgne) Moderator: KAJIURA**

- 8:00 AM \*YOPAK, KARA E.; MONTGOMERY, JOHN C. Comparative brain morphology in elasmobranchs: From structure to function
- 8:15 AM (Gruber) \*JORDAN, LAURA K. Stingray mechanosensory and electrosensory ecomorphology: implications for near field prey detection (Elasmobranchii: Batoidea)
- 8:30 AM (Gruber) \*MACESIC, LAURA J.; KAJIURA, STEPHEN M. Behavioral function of the electric organs of Bancroft's numbfish, *Narcine bancroftii*
- 8:45 AM (Gruber) \*LITHERLAND, LENORE E.; COLLIN, SHAUN P.; BENNETT, MIKE; STEVENS, JOHN D.; FRITSCHES, KERSTIN A. Visual ecology of the sandbar shark, *Carcharhinus plumbeus*
- 9:00 AM (Gruber) \*CASPER, BRANDON M.; MANN, DAVID A. The directional hearing abilities of elasmobranchs
- 9:15 AM \*KAJIURA, STEPHEN M.; MEREDITH, TRICIA L.; TRICAS, TIMOTHY C. Olfactory responses and crypsis of natural prey metabolites to juvenile hammerhead sharks

9:30 – 10:00 AM: *BREAK*

**SENSORY BIOLOGY/FOOD & FEEDING I (continued) Moderator: CORTÉS**

- 10:00 AM (Gruber) \*BLANCO-PARRA, MARIA DEL PILAR; GALVÁN-MAGAÑA, FELIPE; MÁRQUEZ-FARIAS, J. FERNANDO. Trophic ecology of the Banded Guitarfish, *Zapterix exasperata*, in the central Gulf of California
- 10:15 AM (Gruber) \*BAREMORE, IVY E.; MURIE, DEBRA J.; CARLSON, JOHN K. Trophic dynamics of the Atlantic Angel Shark in the northern Gulf of Mexico
- 10:30 AM (Gruber) \*McELROY, W. DAVID; McCANDLESS, CAMILLA T.; KOHLER, NANCY E. Diet and ontogenetic change of juvenile sandbar sharks, *Carcharhinus plumbeus*, in the Delaware Bay nursery
- 10:45 AM (Gruber) \*GERRY, SHANNON P.; DEAN, MASON N.; WILGA, CHERYL D. Bilateral jaw muscle activity in spiny dogfish
- 11:00 AM \*HUBER, DANIEL R.; MOTTA, PHILIP J. Mechanical factors involved in the evolution of chondrichthyan jaw suspension mechanisms
- 11:15 AM NAUWELAERTS, SANDRA; \*WILGA, CHERYL D.; LAUDER, GEORGE V.; SANFORD, CHRISTOPHER P. Fluid dynamics of suction feeding in bamboo sharks
- 11:30 AM \*McMEANS, BAILEY; HIGGINBOTHAM, DAVID; BECHTOL, WILLIAM; FISK, AARON. Essential and non-essential element concentrations in polar sharks

**AGE & GROWTH****Moderator: CARLSON**

- 1:30 PM \*HALE, LORAIN; DUDGEON, JOHN; LOWE, CHRISTOPHER G.; MASON, ANDREW Z. Elemental signatures in the vertebral cartilage of the round stingray, *Urobatis halleri*, from Seal Beach, California
- 1:45 PM \*PIERCY, ANDREW; CARLSON, JOHN; MIDDLEMISS, AMANDA; SULIKOWSKI, JAMES; BURGESS, GEORGE. The age and growth of *Sphyrna lewini* and *S. mokarran* in southeastern U.S. waters
- 2:00 PM \*ROMINE, JASON G.; MUSICK, JOHN A. Compensatory growth in the sandbar shark, *Carcharhinus plumbeus*: Fact or fiction?
- 2:15 PM \*DiBATTISTA, JOSEPH D.; FELDHEIM, KEVIN A.; HENDRY, ANDREW P.; GRUBER, SAMUEL H. When bigger is not better: Selection against large size, high condition, and fast growth in juvenile lemon sharks
- 2:30 PM \*CAMPANA, STEVEN E.; FRANCIS, MALCOLM P.; JONES, CYNTHIA M. Is there a maximum age which can be determined from shark vertebrae?
- 2:45 PM \*CASSOFF, RACHEL M.; CAMPANA, STEVEN E.; MYKLEVOLL, SIGMUND. Changes in baseline growth and maturation parameters of Northwest Atlantic porbeagle shark, *Lamna nasus*, following heavy exploitation
- 3:00 – 5:00 PM: Open Mic Session (Borgne)
- 7:00 – Midnight: AES Banquet (Broussard's Restaurant)

~~~~~ **MONDAY, JULY 17** ~~~~~

WHITE SHARK SYMPOSIUM (Borgne)**Moderator: O'SULLIVAN**

- 8:00 AM *BRUCE, BARRY D.; STEVENS, JOHN D.; BRADFORD, RUSSELL W. Coastal migrations, temporary residency and site fidelity of white sharks in Australian waters
- 8:15 AM DUFFY, CLINTON A.J. Distribution and biology of the white shark (*Carcharodon carcharias*) in New Zealand waters
- 8:30 AM *FRANCIS, MALCOLM P.; BONFIL, RAMON; DUFFY, CLINTON; O'BRIEN, SHANNON; MANNING, MICHAEL J. Surface cruising and deep diving during ocean crossings by white sharks (*Carcharodon carcharias*)
- 8:45 AM *BONFIL, RAMON; DUFFY, CLINTON; FRANCIS, MALCOLM; MANNING, MICHAEL; O'BRIEN, SHANNON. Large-scale spatial dynamics of white sharks (*Carcharodon carcharias*) in the south Pacific Ocean using satellite tags: A case of foraging migrations?
- 9:00 AM *KOCK, ALISON A.; LAROCHE, R. KARL; COMPAGNO, LEONARD J.V.; GRIFFITHS, CHARLES L.; OOSTHUIZEN, HERMAN. Seasonal occurrence, residency patterns and habitat use of white sharks at Seal Island, South Africa
- 9:15 AM *DOMEIER, MICHAEL L.; NASBY-LUCAS, NICOLE. Large scale movement patterns of Guadalupe Island, Mexico, white sharks (*Carcharodon carcharias*) described from archival tag data

9:30 – 10:00 AM: *BREAK*

WHITE SHARK SYMPOSIUM (continued)**Moderator: EZCURRA**

- 10:00 AM DOMEIER, MICHAEL; *NASBY-LUCAS, NICOLE. Description of a white shark aggregation in the eastern Pacific (Guadalupe Island, Mexico) using photographic methods
- 10:15 AM *MÁRQUEZ-FARIAS, J. FERNANDO; RODRÍGUEZ, ALEJANDRO; CISNEROS-MATA, MIGUEL A. Investigation of the movement and depth-temperature preferences of the white shark (*Carcharodon carcharias*) from the Gulf of California, Mexico
- 10:30 AM *SOSA-NISHIZAKI, OSCAR; PÉREZ-JIMÉNEZ, JUAN C.; CASTILLOGÉNIZ, J. LEONARDO; RODRIGUEZ-MEDRANO, CARMEN; O'SULLIVAN, JOHN.;

- MEDELLÍN-ORTÍZ, ALFONSO; MÉNDEZLOEZA, IVAN. The occurrence of juvenile white sharks (*Carcharodon carcharias*) in the northwestern Mexico
- 10:45 AM *JORGENSEN, SALVADOR J.; WENG, KEVIN; BOUSTANY, ANDRE M.; ANDERSON, SCOTT; VAN SOMMERAN, SEAN; LUCAS, SCOTT; FRITZ-COPE, CALLAGHAN; BROWN, ADAM; PYLE, PETER; CHAPPLE, TAYLOR; KLIMLEY, A. PETER; BLOCK, BARBARA A. The white shark cafe: Seasonal offshore migration of adult white sharks to the central northeast Pacific
- 11:00 AM *WENG, KEVIN C.; O'SULLIVAN, JOHN; LOWE, CHRISTOPHER G.; WINKLER, CHUCK; DEWAR, HEIDI; BLOCK, BARBARA A. Movement, behavior and habitat of juvenile white sharks in the eastern Pacific
- 11:15 AM *KIM, S.; KERR, L.; SUK, S.; KOCH, P. Isotopic evidence for dietary shift in historical and modern white sharks off the coast of California
- 11:30 AM *BLASIUS, MARY ELLEN; GOODMAN-LOWE, GWEN D.; JARVIS, ERICA, T.; MASON, TOM J.; O'SULLIVAN, JOHN B.; LOWE, CHRISTOPHER G. Occurrence of juvenile white sharks (*Carcharodon carcharias*) in fisheries throughout the Southern California Bight
- 11:45 AM *EZCURRA, JUAN M.; O'SULLIVAN, JOHN B.; MOLLET, HENRY F. Captive feeding and growth of a juvenile white shark, *Carcharodon carcharias*, at the Monterey Bay Aquarium

THERMAL ECOLOGY/FOOD & FEEDING II

Moderator: NEER

- 1:45 PM *NEER, JULIE A.; ROSE, KENNETH A.; CORTÉS, ENRIC. Simulating the effects of temperature on individual and population growth of the cownose ray, *Rhinoptera bonasus*: A coupled bioenergetics matrix modeling approach
- 2:00 PM *DiGIROLAMO, ANTHONY; GRUBER, SAMUEL H.; BENNETT, WAYNE A. Thermal ecology and activity patterns of juvenile lemon sharks, *Negaprion brevirostris*, in a shallow water nursery
- 2:15 PM LÓPEZ-VERA, CAROLINA; MAZ, ALEJANDRA; *GALVÁN-MAGAÑA, FELIPE; ROSILES-MARTINEZ, RENE. Mercury bioaccumulation in sharks from Baja California Sur, Mexico
- 2:30 PM *NEWMAN, STEVEN P.; HANDY, RICHARD D.; GRUBER, SAMUEL H. Ontogenetic variation in diet and prey preference of juvenile lemon sharks, *Negaprion brevirostris*
- 2:45 PM STROUD, ERIC M.; *HERRMANN, MICHAEL M.; GRUBER, SAMUEL. H. Evaluation of neodymium-iron-boride magnets on demersal longlines

3:00 – 3:30 PM: *BREAK*

- 3:30 PM MARTIN, R. AIDAN; ROSSMO, D. KIM; *HAMMERSCHLAG, NEIL. Geographic profiling of white shark (*Carcharodon carcharias*) predation
- 3:45 PM *LITVINOV F.F.; PATOKINA F.A.; KUKUEV E.I.; GULYUGIN S. YU. Distribution, abundance and feeding of skates in western African waters and adjacent submarine mounts

MOVEMENTS & HABITAT II

Moderator: CONRATH

- 1:45 PM *LAROUCHE, R. KARL; KOCK, ALISON A.; DILL, LAWRENCE M.; OOSTHUIZEN, W. HERMAN. Effects of provisioning ecotourism activity on the behavior of white sharks, *Carcharodon carcharias*
- 2:00 PM *HOYOS, MAURICIO; RIBOT, CONSTANZA; BLANCO, PILAR; GALVÁN, FELIPE; KLIMLEY, PETER; DOMEIER, MICHAEL. Preliminary studies of the biology of white sharks at Guadalupe Island, Mexico
- 2:15 PM *JOHNSON, RYAN L.; MEYER, MIKE A.; OOSTHUIZEN, WESSELS H.; BESTER,

- MARTHAN N.; SWANSON, STEPHAN; KOTZE, DEON. Using acoustic telemetry to monitor and track the behaviour of white sharks (*Carcharodon carcharias*) at Mosselbaai, South Africa
- 2:30 PM *KESSEL, STEVEN T.; GRUBER, SAMUEL H.; PERKINS, RUPERT G. Seasonality in shark long-line catches at Bimini, Bahamas
- 2:45 PM *JENNINGS, DAVID E.; GRUBER, SAMUEL H.; KESSEL, STEVEN T.; FRANKS, BRYAN R.; ROBERTSON, ANNE L. Anthropogenic effects of large-scale resort development on juvenile lemon shark (*Negaprion brevirostris*) populations of Bimini
- 3:00 – 3:30 PM: *BREAK*
- 3:30 PM JOHNSON, RYAN L.; *GENNARI, ENRICO; MEYER, MIKE A.; BESTER, MARTHAN, N.; OOSTHUIZEN, WESSELS, H. Acoustic telemetry offers new insight into the hunting behaviour of white sharks at a Seal Island
- 3:45 PM *WARD-PAIGE, CHRISTINE A.; MYERS, RANSOM A.; PATTENGILLSEMMENS, CHRISTY. Decline in yellow stingray (*Urobatus jamaicensis*) in the Florida Keys National Marine Sanctuary, USA
- 4:00 PM *PIKITCH, ELLEN K.; CHAPMAN, DEMIAN D.; BABCOCK, ELIZABETH A.; SHIVJI, MAHMOOD S. Shark movement and habitat use at Glovers Reef Marine Reserve, Belize
- 4:15 PM BRUNNSCHWEILER, JUERG M. Insight into bull shark, *Carcharhinus leucas*, behavior in the south Pacific
- 4:30 PM MARTIN, R. AIDAN. Behavioral ecology of white sharks in false bay, South Africa, with recommendations for local management and conservation
- 4:45 PM *STROUD, ERIC M.; HERRMANN, MICHAEL M.; GRUBER, SAMUEL H. Evaluation of Semiochemical Shark Repellents on Demersal Longlines



Upcoming Meetings of the *American Elasmobranch Society*

2007

St. Louis, Missouri
July 11-16

2008

To Be Announced