

# SICB 2020



## Society for Integrative and Comparative Biology

with the  
American Microscopical Society  
The Crustacean Society

January 3-7, 2020 • Austin, TX • JW Marriott Austin

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# Registration Brochure

## Highlights

- ◆ Plenary Session on Thursday evening, 3 January, followed by a Welcome Reception.
- ◆ Special Lectures:
  - Bartholomew Award/Lecture
  - Howard Bern Lecture
  - American Microscopical Society (AMS) Lecture
  - John A. Moore Lecture

## Important Information

- ◆ Abstracts will **only** be available online. If a hard copy is desired, it must be ordered and paid for by 4 December. It will be available for pick up at the registration desk.
- ◆ Student housing support will require a \$75 co-pay by the participant. Student support is only for 3 years; those who have received support for 3 years are no longer eligible.

## NEW THIS YEAR!

- ◆ In an effort to go green, you can opt out of receiving a physical, printed copy of the meeting program. The meeting app will contain all of the program information.

## Again this Year!

SICB Meeting will end with the Moore Lecture Tuesday 7 January from 3:00-4:00 pm followed by a wine & cheese reception from 4:00-6:00 pm

## Sessions-Symposia-Social Events

The 2020 Annual Meeting of the Society for Integrative and Comparative Biology (SICB) is an educational and research forum for investigations of biology on a broad comparative scale. The meeting will include many symposia and special programs in addition to hundreds of contributed papers in divisional and topical sessions. Watch the SICB Web site at [www.sicb.org](http://www.sicb.org) for Schedule of Events updates and the posting of abstracts in November, 2019.

## Workshops

- ◆ Student/Postdoctoral Affairs Workshop
- ◆ Broadening Participation Committee Workshop
- ◆ Public Affairs Committee Workshop
- ◆ TALX (Teaching and Learning Workshop)
- ◆ “Sketchnotes” Workshop
- ◆ Student Support Committee Workshop

## Broadening Participation Committee

The Broadening Participation Committee is coordinating a meeting mentorship program, in which junior SICB attendees will be matched to a more experienced student, post-doc or faculty member, who can provide networking opportunities, tips for getting the most out of the meeting, and general career advice. Mentors and mentees will be asked to contact each other before the meeting and to attend several talk/poster sessions or social events together during the meeting. If you are interested in potentially serving as a meeting mentor and/or mentee at the 2020 meeting, please check the appropriate box on the registration form, and we will provide you with additional information by e-mail.

## Training Session and First-Timer’s Orientation

Friday 3 January 2020, 5:30 pm. This session will include training for students who will be supporting the sessions in exchange for Charlotte Mangum funding (mandatory for these recipients). It will also cover how to get the most out of a SICB meeting.

- ◆ How to find relevant talks/posters during the meetings
- ◆ How to find everyone at the meetings
- ◆ How to approach a “big wig”
- ◆ How to enter or leave a room/move between rooms
- ◆ How to plan your meeting
- ◆ How to get involved in SICB or attend business meetings and the importance of attending the meetings (exposure, recognition). This will be followed by a lightning round of first timers' questions.

## Opening Plenary Session, Friday 3 January

The Plenary Address will take place at the JW Marriott Austin.

## Welcome to Austin Reception

The Society for Integrative and Comparative Biology welcomes you to Austin with a reception on Friday 3 January. The Welcome Reception will follow the Plenary lecture held at the JW Marriott Austin. Light snacks and cash bar will be provided.

## SICB Business Meeting

The SICB Business Meeting will take place Monday 6 January, from 5:45-6:45 pm.

## American Microscopical Society

The annual AMS Business Meeting will take place Sunday 5 January, from Noon-1:30 pm, in the JW Marriott Austin.

## SICB Society-Wide Social in Honor of Students and Postdocs

Join your fellow SICB members for a Society-Wide Social on Tuesday 7 January, from 4:00-6:00 pm. Refreshments will be served and a cash bar will be available.

# 2020 Symposia

## 4 January 2020

- ◆ S1. SICB Wide Symposium: New Frontiers in Antarctic Marine Biology. Organizers: James McClintock, Charles Amsler, Bill Baker, Art Woods, Amy Moran. Sponsors: DCPB, DEE, DIZ, AMS, TCS
- ◆ S2. Epigenetic Variation in Endocrine Systems. Organizers: Tyler Stevenson, Lynn Martin, Haley Hanson; Sponsors: DAB, DCE, DCPB, DEDB, DEDE, DNNSB
- ◆ S3. Biology at the Cusp: Teeth as a Model Phenotype for Integrating Developmental Genomics, Biomechanics, and Ecology. Organizers: Gareth Fraser, Darrin Hulseley; Sponsors: DCB, DEDB, DEE, DVM

## 5 January 2020

- ◆ S4. SICB Wide Symposium: Reproduction: the female perspective from an integrative and comparative framework. Organizers: Virginia Hayssen, Teri Orr; Sponsors: DAB, DCE, DCPB, DEDB, DEE, DEDE, DNNSB, DPCB, DVM, AMS
- ◆ S5. Form, structure and function: How plants vs. animals solve physical problems. Organizers: Ulrike Muller, Simon Poppinga, Anna Westermeier; Sponsors: DCB, DIZ, DVM, AMS
- ◆ S6. Bio-inspiration of silent flight of owls and other flying animals: recent advances and unanswered questions. Organizers: Christopher Clark, Justin Jaworski; Sponsors: DAB, DCB, DEE, DVM

## 6 January 2020

- ◆ S7. SICB Wide Symposium: Building Bridges from Genome to Phenome: Molecules, Methods and Models. Organizers: Karen Burnett, Jonathon Stillman, Donald Mykles, David Durica; Sponsors: DCE, DCPB, DEDB, DEDE, DEE, DIZ, DPCB, AMS, TCS
- ◆ S8. Long Limbless Locomotors: The mechanics and biology of elongate, limbless vertebrate locomotion. Organizer: Henry Astley; Sponsors: DAB, DCB, DNNSB, DVM
- ◆ S9. Applied Functional Biology: linking ecological morphology to conservation and management. Organizers: Lance McBrayer, Eric McElroy, Diego Sustaita; Sponsors: DAB, DCB, DEE, DNNSB, DVM

## 7 January 2020

- ◆ S10. Melding Modeling and Morphology: integrating approaches to understand the evolution of form and function. Organizers: Lindsay Waldrop, Jonathan Rader; Sponsors: DCB, DEDB, DPCB, DVM, TCS
- ◆ S11. Integrative comparative cognition: can neurobiology and neurogenomics inform comparative analyses of cognitive phenotype? Organizers: Yuxiang Liu, Sabrina Burmeister; Sponsors: DAB, DEDE, DEE, DNNSB, DPCB

## Registration

Register now for the 2020 SICB Annual Meeting. Make sure all sections of the conference registration form are complete, and proper payment is included to avoid processing delays.

### Full meeting registration includes:

- ◆ Sessions and refreshment breaks
- ◆ Welcome to Austin Reception
- ◆ SICB Society-Wide Wine & Cheese Reception in Honor of Students and Postdocs
- ◆ Access to the exhibit hall

### Student meeting registration includes:

- ◆ Welcome and Meeting Orientation
- ◆ Sessions and refreshment breaks
- ◆ Welcome to Austin Reception
- ◆ SICB Society-Wide Wine & Cheese Reception in Honor of Students and Postdocs
- ◆ Access to the exhibit hall

### Companion registration includes:

- ◆ Welcome to Austin Reception
- ◆ SICB Society-Wide Wine & Cheese Reception in Honor of Students and Postdocs
- ◆ Access to the exhibit hall
- ◆ NOTE: Companion Registration does NOT include access to sessions and refreshment breaks

## Three Ways to Register

To qualify for discounted early registration fees, registration forms and payment must be received at the SICB Business Office by Wednesday 4 December 2019.

1. Register online at [www.sicb.org](http://www.sicb.org).
2. Register by fax: Fax your completed form with credit card information to (703) 790-2672. VISA, Mastercard, and American Express accepted.
3. Mail your completed form with payment to:



SICB Business Office  
950 Herndon Parkway, Suite 450  
Herndon, VA 20170

Mail completed registration form with check (payable to SICB), money order, purchase order or credit card information. Individuals will not be registered, nor will space be held, without full payment.

## Registration Cancellation Policy

All cancellations are subject to a 20% service charge. Cancellations must be in writing via fax, email or regular mail to the SICB Business Office. Cancellation notices received by 4 December will be refunded total registration fees minus the 20% service charge and will be refunded after the meeting. No refunds will be issued on cancellations received after 4 December.

## Poster Presentations

Poster sessions, with authors available for questions and answers, will take place each day from 3:30-5:30 pm. Posters will be available for viewing without the authors present during Exhibit Hall hours on the day the poster is scheduled (example, a Sunday poster will be up from 9:30 am-5:30 pm).

## Registration Fee Categories

If you have been a member of SICB for the last 3 years (2017 to 2019), you qualify for the SICB Loyal Member rate. If you are just joining SICB or are a former member who has not been a member for the last 3 consecutive years, you qualify for a discounted SICB Member registration rate. Non-members may join SICB (\$105 dues) and qualify for the member discount. Individuals can renew SICB membership, join SICB, and register for the meeting online.

Category	Through 12/4	After 12/4
SICB Loyal Member* (member for the last 3 years)	\$ 290	\$ 350
SICB Member**	\$ 345	\$ 405
SICB Student Member*	\$ 115	\$ 175
SICB Postdoc Member*	\$ 235	\$ 295
SICB Emeritus Member*	\$ 235	\$ 295
Non-member (Fee includes SICB membership)	\$ 455	\$ 515
Non-member	\$ 455	\$ 515
Student Non-member (Fee includes SICB membership)	\$ 165	\$ 225
Postdoc Non-member (Fee includes SICB membership)	\$ 290	\$ 340
Developing Country Member	\$ 175	\$ 235
High School and Community College Teachers	\$ 115	\$ 175
Companion	\$ 95	\$ 120
One Day Only	\$ 180	\$ 235
One Day Student	\$ 100	\$ 100

\* Member fees available to people who have paid their 2019 SICB dues.

† Members of co-sponsoring Societies (AMS and TCS) are eligible for this SICB Member rate. Only SICB student members are eligible for the student member registration.

## Hotel Reservations

The hotel for the SICB annual meeting is the JW Marriott Austin, 10 East 2nd Street, Austin, TX 78701. Phone: 512-474-4777. For more information and to book your room, click [here](#).

## General Information

### Annual Meeting Program and Abstracts

All registered attendees of the 2020 Annual Meeting have the option to receive a copy of the Annual Meeting Program at the SICB Registration/Information Desk located in the Ballroom Foyer of the JW Marriott Austin. The full program will be available prior to the Annual Meeting on the Web site at [www.sicb.org](http://www.sicb.org). The abstracts will be online and will also be published as citable documents online in association with an issue of *Integrative and Comparative Biology*. For those who wish to have a hard copy version of the abstracts, it may be ordered prior to the meeting. See the registration form for this option.

### Registration/Information Area

The SICB Registration/Information area will be located at the JW Marriott Austin. The hours of operation are:

Friday 3 January	3:00 pm-7:30 pm
Saturday 4 January	7:00 am-5:00 pm
Sunday 5 January	7:00 am-3:00 pm
Monday 6 January	7:00 am-3:00 pm
Tuesday 7 January	7:00 am-3:00 pm

Staff is available during these times to assist you with membership enrollment, on-site registration, conference materials, employment opportunity information, meeting room locations, and information on Austin.

### Employment Opportunities

The Employment Opportunity bulletin board will be located in the SICB Registration/Information area. The Employment Opportunity board will provide a place for attendees to post "Positions Wanted," and learn about "Positions Available." Interested attendees may schedule interviews in the room set aside for that purpose. See a registration desk attendant for assistance.

### Special Student Travel Awards

Go to the SICB web site, [www.sicb.org](http://www.sicb.org), under Students for details.

### Message Board

A message board will be located in the SICB Registration/Information area. Attendees may also leave messages and announcements for other attendees on the message board.

### Child Care

This year the child care at the annual meeting will be free and provided by Preferred Sitters, the same group that has provided care at SICB since 2015. They are fully insured, and dedicated to providing an enjoyable environment for your child. Registration by December 4th is required to participate.

For questions or to register your child or children, please email: [PreferredSitter@gmail.com](mailto:PreferredSitter@gmail.com).

# 2019 Membership/Renewal/Join Application

Member # \_\_\_\_\_

## Membership Dues

SICB members attending the 2020 Annual Meeting must have their 2019 membership dues paid in order to receive the SICB member rate. You may join or renew your membership by using the Continuing Member option or providing membership information below. If you have already paid your 2019 SICB membership dues, you may skip this section. Please submit this form only once for each option. New membership and membership renewal/dues payment is for 2019 through 31 March 2020.

**NOTE:** You become a member by registering for the meeting as a non-member and filling out this form.

## Membership Application/Dues Renewal 2019

Name: (First) \_\_\_\_\_ (Last) \_\_\_\_\_

Institution: \_\_\_\_\_ Dept: \_\_\_\_\_

Address (for confirmation): \_\_\_\_\_

City: \_\_\_\_\_ State/Country: \_\_\_\_\_ Zip/Postal Code: \_\_\_\_\_

Business Phone: \_\_\_\_\_ Cell Phone: \_\_\_\_\_

Email: \_\_\_\_\_ Home Phone: \_\_\_\_\_

Gender:  Male  Female URL for your Web Page: \_\_\_\_\_

## Please indicate if you are a current member of the following SICB Co-sponsoring Societies:

American Microscopical Society (AMS)  The Crustacean Society (TCS)

## Membership Options – 2019 Annual Dues (1 April 2019 - 31 March 2020)

Please check the appropriate category below.

SICB is committed to conservation, and provides the journal electronically unless you opt here  for hard copies

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> [FM] Full Member \$110        | <input type="checkbox"/> [SF] Graduate Student Family \$85 | <input type="checkbox"/> [LM] Life Full Member Family \$4,200              |
| <input type="checkbox"/> [FH] Full Member Family \$150 | <input type="checkbox"/> [SP] Postdoctoral \$55            | <input type="checkbox"/> 20 year Full Member \$1,700                       |
| <input type="checkbox"/> [SS] Student \$50             | <input type="checkbox"/> [FP] Postdoctoral Family \$70     | (Can be paid in three installments within the first 3 years of membership) |
| <input type="checkbox"/> High School Student           | <input type="checkbox"/> [EG] Emeritus \$70                | <input type="checkbox"/> 20 year Full Member Family \$2,150                |
| <input type="checkbox"/> Undergraduate Student         | <input type="checkbox"/> [LM] Life Full Member \$3,150     |  |
| <input type="checkbox"/> Graduate Student              |  |  |

If a Family membership, please indicate the name of the spouse: \_\_\_\_\_

## Division Affiliation

You may choose your divisional affiliation(s) with a checkmark. Please include any dues with your membership payment.

- |   |   |
|---|---|
| <input type="checkbox"/> DAB Animal Behavior                              | <input type="checkbox"/> DEE Ecology & Evolution                                  |
| <input type="checkbox"/> DCB Comparative Biomechanics                     | <input type="checkbox"/> DEDE Ecoimmunology and Disease Ecology                   |
| <input type="checkbox"/> DCE Comparative Endocrinology (\$10 dues)        | <input type="checkbox"/> DIZ Invertebrate Zoology                                 |
| <input type="checkbox"/> DCPB Comparative Physiology & Biochem (\$5 dues) | <input type="checkbox"/> DNNSB Neurobiology, Neuroethology, and Sensory Biology   |
| <input type="checkbox"/> DOB Division of Botany                           | <input type="checkbox"/> DPCB Phylogenetics & Comparative Biology (formerly DSEB) |
| <input type="checkbox"/> DEDB Evolutionary Developmental Biology          | <input type="checkbox"/> DVM Vertebrate Morph (\$5 students/postdocs) (\$10 dues) |

## Payment Options

Mail Check Payment to: SICB, 950 Herndon Parkway, Suite 450, Herndon, VA 20170

VISA  MasterCard  American Express

Card # \_\_\_\_\_ Exp. Date \_\_\_\_\_ CV2# \_\_\_\_\_

Cardholder Name \_\_\_\_\_ Signature \_\_\_\_\_

Cardholder Billing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cardholder Phone \_\_\_\_\_ Email \_\_\_\_\_

# SICB 2020 – Annual Meeting

3-7 January 2020 • Austin, Texas

SICB Federal Tax #  
95-2536887

Presenter Deadline is 6 November 2019  
Early Fee Deadline is 4 December 2019

SICB Member Number: \_\_\_\_\_

Yes, I have read and accept SICB's Code of Conduct

Name for badge: (First) \_\_\_\_\_ (Last) \_\_\_\_\_

Institution (for badge) (limit to 18 characters and spaces): \_\_\_\_\_

Address (for confirmation): \_\_\_\_\_

City: \_\_\_\_\_ State/Country: \_\_\_\_\_ Zip/Postal Code: \_\_\_\_\_

Business Phone: \_\_\_\_\_ Cell Phone: \_\_\_\_\_

Email: \_\_\_\_\_ If Registering - Companion Name: \_\_\_\_\_

## SICB OR CO-SPONSOR (Please select only one primary affiliation):

- SICB  American Microscopical Society  None  
 The Crustacean Society

## BROADENING PARTICIPATION PROGRAM

- Would you like to serve as a meeting mentor?  Yes  No  
Would you like to be matched to a meeting mentor?  Yes  No

## MY PRONOUNS (New this year, SICB is providing the option of printing pronouns on badges)

- She/Her  He/Him  They/Them  Ask Me  
 I prefer not to include pronouns on my badge  Other: \_\_\_\_\_

- Is this your first SICB Annual Meeting?  Yes  No  
Are you a Presenter?  No  Yes - If Yes, Abstract #: \_\_\_\_\_  
Do you want your name included on the Attendee List?  Yes  No

## REGISTRATION FEES: Mark Appropriate Boxes

	Through 12/4	After 12/4
<input type="checkbox"/> SICB Loyal Member (member for last 3 years; paying dues)*	\$ 290	\$ 350
<input type="checkbox"/> SICB Member**	\$ 345	\$ 405
<input type="checkbox"/> SICB Student Member* <input type="checkbox"/> Graduate Student <input type="checkbox"/> Undergraduate Student <input type="checkbox"/> High School Student	\$ 115	\$ 175
<input type="checkbox"/> SICB Postdoctoral Member*	\$ 235	\$ 295
<input type="checkbox"/> SICB Emeritus Member*	\$ 235	\$ 295
<input type="checkbox"/> Non-Member but joining SICB (fee includes SICB full membership)	\$ 455	\$ 515
<input type="checkbox"/> Non-Member	\$ 455	\$ 515
<input type="checkbox"/> Student Non-Member but joining SICB (fee includes SICB student membership)	\$ 165	\$ 225
<input type="checkbox"/> Graduate Student <input type="checkbox"/> Undergraduate Student <input type="checkbox"/> High School Student		
<input type="checkbox"/> Postdoctoral Non-Member but joining SICB (fee includes SICB postdoc membership)	\$ 290	\$ 340
<input type="checkbox"/> Developing Country Member ( <a href="http://bit.ly/2v4Oawy">http://bit.ly/2v4Oawy</a> )	\$ 175	\$ 235
<input type="checkbox"/> HS/Community College Teacher	\$ 115	\$ 175
<input type="checkbox"/> Companion	\$ 95	\$ 120
<input type="checkbox"/> One Day Fee <input type="checkbox"/> Saturday <input type="checkbox"/> Sunday <input type="checkbox"/> Monday <input type="checkbox"/> Tuesday	\$ 180	\$ 235
<input type="checkbox"/> One Day Student <input type="checkbox"/> Saturday <input type="checkbox"/> Sunday <input type="checkbox"/> Monday <input type="checkbox"/> Tuesday	\$ 100	\$ 100

\* Member fees available to people who have paid membership through 3/31/2020. Student rates apply only to SICB Student Members.

† Full Members of co-sponsoring Societies (AMS and TCS) are eligible for the SICB Member rate.

- Hard copy of abstracts (**MUST ORDER BY 4 DECEMBER**) *Pre-ordered copies will be available at the meeting* \$ 25 N/A  
 Opt Out of receiving a copy of the final printed program? *The meeting app will contain all the program information.*

## SPECIAL EVENTS:

- Childcare: To register your child or children, please email [preferredsitters@msn.com](mailto:preferredsitters@msn.com).  
 Austin Commemorative Shirts: *Profits from the sale are used to support student activities* # \_\_\_ x \$20 Before 12/4 # \_\_\_ x \$25 After 12/4  
 Men's Shirt size:  S Quantity: \_\_\_\_\_  M Quantity: \_\_\_\_\_  L Quantity: \_\_\_\_\_  XL Quantity: \_\_\_\_\_  XXL Quantity: \_\_\_\_\_  
 Women's Shirt size:  S Quantity: \_\_\_\_\_  M Quantity: \_\_\_\_\_  L Quantity: \_\_\_\_\_  XL Quantity: \_\_\_\_\_  XXL Quantity: \_\_\_\_\_

## PRIMARY INTEREST: Please CHECK NO MORE THAN 3 categories that will appear on your name badge

- Animal Behavior  Evolutionary Developmental Biology  Phylogenetics & Comparative Biology  
 Botany  Ecoimmunology and Disease Ecology  Vertebrate Morphology  
 Comparative Biomechanics  Ecology and Evolution  American Microscopical Society  
 Comparative Endocrinology  Invertebrate Zoology  The Crustacean Society  
 Comparative Physiology and Biochemistry  Neurobiology, Neuroethology, and Sensory Biology  Symposium Participant

## PAYMENT INFORMATION:

Mail Check Payment to: SICB, 950 Herndon Parkway, Suite 450, Herndon, VA 20170; Phone: (703) 790-1745; Fax: (703) 790-2672; [www.SICB.org](http://www.SICB.org)

- VISA  MasterCard  American Express  Discover

Card # \_\_\_\_\_ Exp. Date \_\_\_\_\_ CV2# \_\_\_\_\_

Cardholder Name \_\_\_\_\_ Signature \_\_\_\_\_

Cardholder Billing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cardholder Phone \_\_\_\_\_ Email \_\_\_\_\_

If faxing registration, 703-790-2672,  
DO NOT mail original

Registration Section Total \$ \_\_\_\_\_  
Special Events Total \$ \_\_\_\_\_  
**TOTAL FEES ENCLOSED \$ \_\_\_\_\_**

All cancellations are subject to a 20% service charge. Cancellations must be in writing via fax, email or regular mail to the SICB Business Office. Cancellation notices received by 4 December will be refunded total registration fees minus the 20% service charge. No refunds will be issued on cancellations received after 4 December. For questions contact Mary Lou Scarbrough [MScarbrough@burkinc.com](mailto:MScarbrough@burkinc.com).