International Animal Biosonar Meeting
July 15, 2018, 9 a.m. to 4 p.m.
Brisbane Powerhouse Rooftop Terrace

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Organizers: James A. Simmons, Brown University (james_simmons@brown.edu) and Cynthia F. Moss, Johns Hopkins University (cynthia.moss@jhu.edu).

Steering Committee: J. A. Simmons, C.F. Moss, M. Smotherman, A. M. Simmons, M. Elhilali, R. Mueller, M. Roan

The goal of the International Animal Biosonar Meeting is to bring together currently active researchers at all career levels to evaluate new methods, new findings, and new concepts for advancing our understanding about the formation and content of the images perceived by echolocating animals. The plan is to focus on several topics of integrative nature.

a. Comparing echo reception and factors that affect sensitivity in dolphin and bat echolocation.
b. Comparing object perception and image content in dolphin and bat echolocation.
c. Developing comparable noninvasive neurophysiological methods for recording pulse and echo responses from behaving dolphins and bats, along with concepts for interpreting the results.
d. For neurophysiological research, applying the methods and concepts of multiple-electrode array recordings in bats, interpreting the results, and relating results from these invasive methods to results obtained in noninvasive experiments.

Bat sonar has long been one of the core model systems for neuroethology. Past International Congresses for Neuroethology have included echolocation symposia, and prior international conferences on animal biosonar have kept the field largely informed of recent research. However, methodological, experimental, and theoretical progress achieved in the past decade has outstripped its dissemination across the field of echolocation research, as well as neuroethology more generally. The Brisbane International Animal Biosonar meeting will assess new acoustic, behavioral, neurophysiological, and computational results so the participants can integrate this new knowledge into their own particular research programs.

Keynote speakers: Darlene Ketten (marine mammals) and Hans-Ulrich Schnitzler (bats)

Contributed oral presentations: 5 min (data blitz format) to 20 min, depending on numbers of participants.

For further information, please contact Jim Simmons (James_Simmons@Brown.edu), Andrea Simmons (Andrea_Simmons@Brown.edu) or Cindy Moss (cynthia.moss@jhu.edu).