

Wednesday, March 6th

- 3:00 pm Check-in
- 6:00 pm Reception (*Lobby*)
- 7:00 pm Dinner (*Dining Room*)
- 8:00 pm Session 1: Welcome / Opening Remarks**
- 8:05 pm Keynote: Ron R. Hoy, Cornell University**
The hunter and the hunted: Coevolutionary framework
- 9:00 pm Refreshments available at Bob's Pub

NOTE:

Talks are in the **Seminar Room**
Posters are in the **Lobby**

Thursday, March 7th

- 7:30 am Breakfast (*Dining Room - service ends at 8:45am*)
- 9:00 am Session 2: Open loop visually driven prey capture**
Chair: Anthony Leonardo
- 9:00 am **Kiisa C. Nishikawa**, Northern Arizona University
Hierarchical decision making in prey capture strategies
- 9:25 am **William R. Mowrey**, Janelia Farm Research Campus/HHMI
Model-driven analysis of accuracy in amphibian prey capture
- 9:50 am **Ronen Segev**, Ben Gurion University
What can the archer fish teach us about visual processing during predation?
- 10:15 am **Sheila Patek**, University of Massachusetts
Power and the evolution of prey capture
- 10:40 am Break
- 11:10 am Session 3: Closed loop visually driven prey capture I**
Chair: Cynthia Moss
- 11:10 am **Karin Nordström**, Uppsala University
Neural mechanisms underlying target tracking behavior
- 11:35 am **Robert Olberg**, Union College
The importance of object distance to the responses of target-selective visual neurons in the dragonfly
- 12:00 pm **Anthony Leonardo**, Janelia Farm Research Campus/HHMI
Guidance laws underlying prey capture in the dragonfly
- 12:25 pm **Jérôme Casas**, UMR CNRS
Search games in predator-prey interactions
- 12:50 pm Lunch (*Dining Room - service ends at 1:15pm*)

- 2:15 pm** **Session 4: Closed loop visually driven prey capture II**
Chair: Katie von Reyn
- 2:15 pm **Cole Gilbert**, Cornell University
Visual guidance of prey pursuit by tiger beetles
- 2:40 pm **P. S. Krishnaprasad**, University of Maryland
Latency and stochasticity in prey capture
- 3:05 pm **Cynthia F. Moss**, University of Maryland
Adaptive sensorimotor behaviors for prey capture by echolocation
- 3:30 pm **William E. Conner**, Wake Forest University
Sound strategies: The 65 million-year-old battle between bats and insects
- 3:55 pm Poster reception
- 5:30 pm Discussion of prey capture
- 6:30 pm Dinner (*Dining Room*)
- 8:00 pm** **Keynote: Roger Hanlon**, Marine Biological Laboratory
Active processes to avoid prey capture: Visually controlled rapid dynamic camouflage in cephalopods
- 9:00 pm Refreshments available at Bob's Pub

Friday, March 8th

- 7:30 am Breakfast (*service ends at 8:45am*)
- 9:00 am Session 5: Visually driven escape**
Chair: Ryan Williamson
- 9:00 am **Gwyneth M. Card**, Janelia Farm Research Campus/HHMI
TBD
- 9:25 am **Fabrizio Gabbiani**, Baylor College of Medicine
Neural and biophysical mechanisms underlying visually guided avoidance behaviors
- 9:50 am **Katie von Reyn**, Janelia Farm Research Campus/HHMI
The role of Drosophila Giant Fibers in looming-evoked escape behavior
- 10:15 am **Stacey Combes**, Harvard University
How general are predator-prey interactions? Comparative flight mechanics and strategy of dragonflies pursuing dipteran prey
- 10:40 am Break
- 11:10 am Session 6: Mechanosensory driven escape**
Chair: Stephen Liberles
- 11:10 am **Malcolm Burrows**, University of Cambridge
How do insects escape so quickly?
- 11:35 am **John P. Miller**, Montana State University
Structural and neuroanatomical bases for tuning of cricket cercal sensory system to small-scale dynamic air current stimulus features
- 12:00 pm **Mark Alkema**, University of Massachusetts Medical School
Monoaminergic orchestration of motor programs during the C. elegans escape response
- 12:25 pm **Andrew M. Leifer**, Princeton University
Technology for manipulating and monitoring neural activity in C. elegans during mechanosensory induced escape response
- 12:50 pm Lunch (*Dining Room - service ends at 1:15pm*)
- 1:30 pm Tour (*optional – meet at reception*)

- 2:30 pm** **Session 7: Fish escape**
Chair: Gwyneth Card
- 2:30 pm **Paolo Domenici**, IAMC-CNR Oristano
Escape responses in fish: Temporal and directional patterns
- 2:55 pm **Melina Hale**, University of Chicago
Variation in a simple escape system: Giant escape neurons, the Mauthner cells, initiate multiple discrete forms of startle in fishes
- 3:20 pm **Florian Engert**, Harvard University
Prey capture and predator avoidance in larval zebrafish
- 3:55 pm **Kenneth C. Catania**, Vanderbilt University
Deadly deceptions - Rare predators turn prey escape to their advantage
- 4:20 pm Poster reception
- 6:00 pm Discussion of escape
- 7:00 pm Dinner (*Dining Room*)
- 8:00 pm Refreshments available at Bob's Pub

Saturday, March 9th

- 7:30 am Breakfast (*Bob's Pub - service ends at 8:45am*)
- 9:00 am Session 8: Making and influencing decisions in predation and escape**
Chair: Robert Olberg
- 9:00 am **Stephen Liberles**, Harvard Medical School
Innate odor avoidance behavior
- 9:25 am **Jens Herberholz**, University of Maryland
Economic escape decisions in crayfish
- 9:50 am **Daniel Tomsic**, University of Buenos Aires
Prey and predator behaviors in crabs: A neuroethological approach
- 10:15 am **Frederic Libersat**, Ben Gurion University of the Negev
What can parasitoid wasps teach us about the control of escape behavior in its host?
- 10:40 am Break
- 11:10 am Session 9: Mechanics**
Chair: William Mowrey
- 11:10 am **Malcolm A. MacIver**, Northwestern University
Vision versus electrosense: Mechanics and sensing in prey capture behavior in larval zebrafish compared to electric knifefish
- 11:35 am **Joshua P. Martin**, Case Western University
*Praying mantids (*Tenodera sinensis*) track moving prey with coordinated head, body, and turning movements*
- 12:00 pm **Jane Wang**, Cornell University
Dynamics and control of insect flight
- 12:25 pm Conclusion & Departure / Boxed lunches to-go available at reception
- 12:45 pm First shuttle to Dulles
1:45 pm Second shuttle to Dulles
2:45 pm Last shuttle to Dulles