

- 2:00 - 2:15 Effects of serotonin on the bag cells of Aplysia.
Susan A. DeRiemer, Yale University.
- 2:15 - 2:30 Kinetics of the effects of protein synthesis inhibitors on
the circadian rhythm of neuronal activity in the eye of Aplysia.
David P. Lotshaw, SUNY at Albany.
- 2:30 - 2:45 Proctolin, a neurohormone in the lobster Homarus Americanus.
David Standaert and Ed Kravitz, Harvard Medical School.
- 2:45 - 3:00 Immunohistochemical localization of serotonin in the lobster,
Homarus Americanus. Barbara Beltz and Ed Kravitz, Harvard
Medical School.
- 3:00 - 3:15 Substance P-like immunoreactivity in the Limulus lateral eye
and protocerebrum. Authors: Gustav A. Engbretson (presenter)
and S. C. Chamberlain, Institute for Sensory Research,
Syracuse University.
- 3:15 - 3:30 Structure of Limulus ventral photoreceptors - light and E.M.
observations. Authors: Bruce G. Calman (presenter) and
S. C. Chamberlain, Syracuse University.
- 3:30 - 3:45 Limulus claw closer muscle can be excited both directly and
indirectly by acetylcholine, aspartate, and glutamate.
Stanley G. Rane, University of Massachusetts.
- 3:45 - 4:15 B R E A K
- 4:15 - 4:30 Supernumerary afferent projections in the cricket cercal system.
S. E. Johnson, SUNY at Albany, N. Y.
- 4:30 - 4:45 Making sense of somatotopy in the insect CNS.
Jonathan Bacon, SUNY at Albany, N. Y.
- 4:45 - 5:00 Acoustic gating of the ultrasound avoidance behavior of the
cricket by an identified auditory interneuron.
Tom Nolen, Cornell University.
- 5:00 - 5:15 Processing of sound signals by six types of neurons in the
prothoracic ganglion of the cricket.
David Wohlers, Cornell University.
- 5:30 - 7:45 COCKTAILS AND DINNER, Swope Center
- 8:00 Posters, Wine and Munchies, Swope Center
- Modulation of photoreceptor response by Ca^{2+} release from
intracellular stores. Peter M. O'Day, Purdue University.
- Analog & impulsive signalling in single mechanoreceptive
units in Crustacea. Valerie Pasztor, McGill University.
- Protein differences in slow and fast crustacean muscles.
Michael Quigley, University of Virginia.
- Microvesicle aggregations within the sensory cells of the
larval eye of Hermisenda crassicornis.
JoAnn Buchanan, Northeastern University, Boston.

Posters (continued)

Optic nerve projection in the cerebral ganglion of Aplysia.
Leah Olson, SUNY at Albany.

Activity sharpens the retinotectal map following regeneration
of the optic nerve in goldfish.
John T. Schmidt, SUNY at Albany.

Sunday, April 25

- 9:30 - 9:45 Freeze fracturing the skate electroreceptor.
Terrence J. Sejnowski & Marilyn L. Yodlowski, Harvard Medical School
- 9:45 - 10:00 Demonstration of retinotectal repolarization in genetic marker
chimerae of Xenopus. Kevin Conway, Robert Tompkins and R. K.
Hunt, Johns Hopkins University.
- 10:00 - 10:15 Binocular competition affects postnatal development of the
visual cortex of the cat. Helmut V. B. Hirsch, SUNY at Albany.
- 10:15 - 10:30 Origin and organization of the mammalian cerebral cortex.
Miguel Marin-Padilla, Dartmouth Medical School.
- 10:30 - 11:00 B R E A K
- 11:00 - 11:15 Monitoring behavioral arousal in the crayfish.
Richard Olivo and Margaret Thompson, Smith College.
- 11:15 - 11:30 A possible mechanism for peripheral spike generation.
Philip J. Stephens, Villanova University.
- 11:30 - 11:45 Effects of strychnine on fictive swimming in the isolated
spinal cord of the lamprey.
Avis H. Cohen (presenter) and R. Harris-Warrick, authors.
- 11:45 - 12:00 Excised-patch recording from liposomes containing functionally
reconstituted ion channels.
David W. Tank, Cornell University.
- 12:00 L U N C H - Swope Center