

*Society
for*

Neuroscience



1973
NOVEMBER

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SAN DIEGO, CALIFORNIA

PRELIMINARY PROGRAM
THIRD ANNUAL MEETING

WEDNESDAY, NOVEMBER 7

10:00 a.m.-6:00 p.m.

REGISTRATION

1:30 p.m.-4:00 p.m.

CONTRIBUTED PAPER SESSIONS

Spinal Reflex Control of Movement
Synaptic Ultrastructure
Plasticity I
Habituation and Conditioning
Neurohormones I
Vision: Extraocular Movements

4:00 p.m.-6:30 p.m.

PRESIDENTIAL SYMPOSIUM

Brain Surgery and Human Behavior
W. J. NAUTA, President, Society for Neuroscience
F. PLUM, Chairman, Committee on Social
Responsibility

6:30 p.m.- 8:00 p.m.

OPENING RECEPTION

8:00 p.m.-9:00 p.m.

CHEMICAL SENSES GROUP

An informal meeting of those interested in the chemical senses. Contact Bernice Wenzel, UCLA Sch. of Med., for further information.

THURSDAY, NOVEMBER 8

7:30 a.m.-5:00 p.m.

REGISTRATION

8:00 a.m.-5:00 p.m.

EXHIBITS

8:30 a.m.-11:30 a.m.

SYMPOSIA

The Release of Biologically Active Substances
Chairman: J. AXELROD, NIMH
Brain Mechanisms of Social Behavior
Chairman: P. D. MACLEAN, NIMH

8:30 a.m.-11:30 a.m.

CONTRIBUTED PAPER SESSIONS

Memory: Transfer, Discrimination
Neurochemistry: Brain Proteins
Vestibular System
Axoplasmic Transport: Experimental Applications
Cerebellum
Developmental Neurobiology: Structure and
Function
Neural Nets
Membranes: Structure and Function
Chemical Senses
Visual Cortex

1:30 p.m.-3:00 p.m.

PANEL DISCUSSIONS

State of the Art:

What Makes a Protein Brain-Specific?
Hair Cells as Specific Receptor Elements

1:30 p.m.-3:00 p.m.

CONTRIBUTED PAPER SESSIONS

Basal Ganglia
Audition
Alcohol
Developmental Neurobiology: Visual System
Morphine and Addiction I

1:30 p.m.-5:00 p.m.

CONTRIBUTED PAPER SESSIONS

Neurochemistry: Behavioral Correlates
Epilepsy
Cutaneous Sensation
Adrenergic Mechanisms
Nerve-Muscle Interaction

3:30 p.m.-5:00 p.m.

PANEL DISCUSSIONS

State of the Art:

Cell Marker Techniques for Investigative
Purposes

Review:

Physiology and Pharmacology of Choroid Plexus
and Blood Brain Barrier

3:30 p.m.-5:00 p.m.

CONTRIBUTED PAPER SESSIONS

Neurotransmitters: Acetylcholine
Mechanisms of Cellular Habituation
Cortex: Higher Functions
Sleep
Hallucinogenic Drugs

-6:30 p.m.

ETY BUSINESS MEETING

SS FOUNDATION LECTURE

Chemical and Physiological Aspects of
Dopamine in the Nervous System
D. E. CARLSSON,
Univ. of Goteborg, Sweden

FRIDAY, NOVEMBER 9

-5:00 p.m.

STRATION

-5:00 p.m.

BITS

-11:30 a.m.

OSIA

Hormones in Brain Development
Speaker: R. W. GOY, Univ. of Wisconsin
Effects of Viruses on Nerve Cells
Speaker: R. T. JOHNSON,
Johns Hopkins Univ. Med. Sch.

-11:30 a.m.

RIBUTED PAPER SESSIONS

Plasticity II
Synaptic Transmission: Central
Neurochemistry: Neurochemical and Electrophysiological
Manipulations
Neurotransmitter Transport: General
Neurons
Central Nervous System I
Mechanisms of Synaptic Transmission
Neurotransmitters: Amino Acids I
Relay Nuclei
Molecular Biophysics

-3:00 p.m.

L DISCUSSIONS

Feedback Commentary Panels (extended discus-
sion of new research lines derived from abstracts
presented during meeting):
Are Neuronal Circuits Specified?
Segmental Reflexes Used to Initiate and
Control Movement?

1:30 p.m.-3:00 p.m.

CONTRIBUTED PAPER SESSIONS

Sympathetic Ganglia
Neurotransmitters: Serotonin
Cardiovascular Control
Neurotransmitters: Amino Acids II

1:30 p.m.-5:00 p.m.

CONTRIBUTED PAPER SESSIONS

Somatosensory Mechanisms
Human Neuroscience: EEG and Evoked Potentials
Brain Stem
Amphetamines
Morphine and Addiction II
Vision: Receptor and Retinal Organization

3:30 p.m.-5:00 p.m.

PANEL DISCUSSIONS

Feedback Commentary Panels:
Is There Redundancy Within Sensory Systems?
Neurophysiological Basis of Habituation and
Conditioning

3:30 p.m.-5:00 p.m.

CONTRIBUTED PAPER SESSIONS

Limbic System II
Developmental Neurobiology:
Electrophysiology and Reflexes
Central Adrenergic Systems
Circulation, CSF and Blood Brain Barrier

5:00 p.m.-6:30 p.m.

PUBLIC LECTURE

Current Status of Research on Transmissible
Virus Dementias
D. C. GAJDUSEK, NIMH, NINDS

SATURDAY, NOVEMBER 10

8:00 a.m.-11:00 a.m.

REGISTRATION

8:30 a.m.-12:00 noon

EXHIBITS

8:30 a.m.-11:30 a.m.

SYMPOSIA

Plasticity in the CNS

Co-Chairmen: W. M. COWAN,
Washington Univ. Med. Sch.
R. Y. MOORE, Univ. of Chicago

Underwater Neurophysiology:
Problems at High Pressure

Co-Chairmen: A. J. BACHRACH
Naval Med. Res. Inst.
P. B. BENNETT,
Duke Univ. Med. Ctr.

8:30 a.m.-11:30 a.m.

CONTRIBUTED PAPER SESSIONS

Subvertebrate Neuronal Mechanisms
Neurochemistry:
Cyclic AMP and Energy Metabolism
Experimental Morphology
Central Reflex Analysis
Tissue Culture
Neurohormones II
Brain Lesions and Behavior
Human Neuroscience
Visual Mechanisms
Developmental Neurobiology: Neurochemistry

1:30 p.m.-6:00 p.m.

**WILD ANIMAL PARK TOUR/
WINE AND CHEESE PARTY**

Neuroscience Annual Meeting Office

Room 200
9650 Rockville Pike
Bethesda, Md. 20014
(301) 530-7010

Third Annual Meeting Program Committee

Chairman:
Floyd E. Bloom
St. Elizabeths Hospital
Washington, D.C.

GENERAL INFORMATION

ANNUAL MEETING OFFICE, SOCIETY HEADQUARTERS, EXHIBITS, REGISTRATION, VISIBLE DIRECTORY AND MESSAGE CENTER—Convention Center of the Town and Country Hotel, San Diego

REGISTRATION HOURS:

Wednesday, November 710:00 a.m.— 6:00 p.m.
Thursday, November 87:30 a.m.— 5:00 p.m.
Friday, November 98:00 a.m.— 5:00 p.m.
Saturday, November 108:00 a.m.—11:00 a.m.

REGISTRATION FEES:

	<u>In Advance</u>	<u>At the Meeting</u>
Members	\$25	\$30
Nonmembers	\$35	\$40
*Students	\$ 5	\$ 5
**Social Registrants	\$ 3	\$ 3

*Any student working toward a degree in neuroscience or an allied field. Return, with advance registration card and remittance, a letter or certificate of eligibility signed by Department Head or Research Advisor. Certificate enclosed. *Post-doctoral fellows, hospital residents, interns and laboratory technicians do not qualify for reduced student rate.*

**Wives and other nonscientist family members of registrants.

To register in advance, mail enclosed registration card with appropriate fee to the Neuroscience Annual Meeting Office, 9650 Rockville Pike, Bethesda, Maryland 20014. Make checks payable to: Neuroscience Annual Meeting. Purchase orders will not be accepted as payment. Advance registration will be accepted until October 10.

PROGRAMS AND ABSTRACTS—Mailed in early September to all Society members and to nonmembers who have registered in advance. An advance registrant who does not bring his copy to the meeting may purchase another for \$5.00 at the Annual Meeting Office.

HOTEL RESERVATIONS—Mail the enclosed hotel reservation card to the Town and Country Hotel, 500 Hotel Circle, San Diego, California, 92138, *not later than October 24, 1973.* Rooms are available at the Town and Country and Hanalei Hotels. Additional hotel rooms in the vicinity will be assigned if needed. Complimentary shuttle bus service will be provided by the Town and Country Hotel. Hotels

will confirm reservations directly to the individual, indicating price of room reserved. If you must change dates or cancel your reservation, please advise the hotel at the earliest opportunity.

GROUP TRAVEL ARRANGEMENTS—Affinity group airline transportation will be available from Chicago, Washington, D.C., and New York City. To be eligible you must have been a member of the Society for Neuroscience at least six months prior to flight date. Members may be accompanied by their immediate families. Minimum of 25 members and families of members required to obtain group fare.

FROM WASHINGTON, D.C.:

Dulles/San Diego
Depart 9:15 a.m., Nov. 7 Arrive 11:45 a.m.
San Diego/Dulles
Depart 12 noon, Nov. 11 Arrive 7:30 p.m.
Round trip air fare per person—\$255 including tax

FROM NEW YORK:

JFK/San Diego
Depart 10:45 a.m., Nov. 7 Arrive 1:30 p.m.
San Diego/JFK
Depart 8:45 a.m., Nov. 11 Arrive 4:35 p.m.
Round trip air fare per person—\$268 including tax

FROM CHICAGO:

O'Hare/San Diego
Depart 10:05 a.m., Nov. 7 Arrive 11:55 a.m.
San Diego/O'Hare
Depart 10:15 a.m., Nov. 11 Arrive 3:45 p.m.
Round trip air fare per person—\$201 including tax
Children under 12 travel for two thirds of the fare.

Group must originate together but if return flight does not meet your requirements, you are allowed to return individually.

Deposit of \$50 per person required.

As noted above, group fare must be based on 25 members in a given area; therefore, arrangements cannot be made for flights from areas with relatively few members. At the present time, Chicago, New York City and Washington, D.C., are the only cities which can be included with any assurance of success. **For reservations and further information, write Chevy Chase Travel, Inc., 4715 Cordell Avenue, Bethesda, MD 20014. Telephone: 301-656-9766.**

GROUND TRANSPORTATION—The Town and Country and Hanalei Hotels are located on Hotel Circle in Mission Valley, approximately 20 minutes from the airport. Those arriving by air should take a taxi (\$4.25; four can ride for the price of one) or a Travel-All Limousine (\$4.00 for one or two persons; \$2.00 for each additional). For those driving their own cars, the Town and Country is on U.S. Highway 8, between U.S. 5 and U.S. 395; turn off Highway 8 on to Hotel Circle.

SAN DIEGO

San Diego is a new and imposing seat of learning with a large state college, three universities including the University of California at San Diego, and several junior colleges. The area has become a leading research center for oceanography and marine biology.

The excellent meeting facilities, delightful climate, myriad attractions and recreational resources found in San Diego, are the ingredients for what may well be the most pleasurable Annual Meeting yet. Few cities in America can combine the appeals of the ocean, the mountains, Balboa Park with the renowned San Diego Zoo, one of the world's most exciting harbors, Mission Bay Park with Sea World, and countless other attractions. All this you will find in San Diego, plus the charm of old Mexico just 17 miles south.

The Town and Country Hotel is a "mini-city" in a tropical setting. The ranch-styled spread includes a new Convention Center, guest accommodations in both hi-rise and motel buildings, three swimming pools, a sauna and health center, several colorful restaurants and over 1,000 palm trees!

SOCIAL PROGRAM AND HOSPITALITY

The Program has been developed to provide a number of opportunities for informal exchange and hospitality. For example, scientific sessions have been scheduled so as to provide two free hours for lunch and relaxed discussion with colleagues. Wednesday and Friday evenings are free. Social events at other times include:

OPENING RECEPTION

All registrants and their guests are cordially invited to attend the opening no-host reception on Wednesday, November 7, from 6:30 p.m.-8:00 p.m., Patio Poolside at the Town and Country Hotel. In case of inclement weather, the reception will be held in the nearby Meeting House.

COFFEE AND DISCUSSION LOUNGE

The Lounge will be open during exhibit hours for coffee and to serve as an informal meeting place. Information about

San Diego sightseeing, restaurants and shopping, will be available.

SOCIAL REGISTRANTS

The Ladies' Hospitality Room, located in the Aqua Room, Poolside, will be open to all social registrants from 1:00 p.m.-5:00 p.m., Wednesday, November 7; 9:00 a.m.-5:00 p.m., Thursday and Friday; and until noon on Saturday. Complimentary coffee will be provided. Special events include a shopping tour of La Jolla, called the "Jewel of the Pacific" with small shops and beautiful homes overlooking white sandy beaches; a guided tour of the Salk Institute for Biological Studies; Brunch at the famous Hotel Del Coronado, a landmark since 1888; and a trip to Tijuana for shopping. The complete program will be sent to Social Registrants who have registered in advance.

INFORMAL SCIENTIFIC TOURS

The Local Committee is investigating the possibilities of small group tours to Scripps Clinic and Research Foundation and other area research facilities. Further information will be included in the Final Program.

WILD ANIMAL PARK SAFARI AND WINE AND CHEESE PARTY

A very special afternoon has been planned for registrants and their guests on Saturday, November 10, beginning with a monorail excursion through the renowned San Pasqual Wild Animal Park, located 30 miles north of the hotel. The Park is an 1800 acre preserve where many exotic species (over 1000 animals) can be observed in surroundings like those of their native homelands. Following the five mile, 50 minute guide-narrated monorail tour, registrants will have the special privilege of touring a major animal research center—The Jerene Appleby Harnish Wild Animal Station for Medical Care and Research, dedicated to the maintenance of health and scientific observation of Park animals. After the "safari," buses will transport registrants to the nearby Inn at Rancho Bernardo, a beautiful hotel in a country club setting, for a party featuring California wines with varieties of cheeses and breads.

The cost, which includes transportation to and from the Town and Country Hotel, Park admission, special tour, monorail, and wine and cheese party, is \$12 per person. Tickets will be available at the registration desk in the Town and Country Convention Center. Group flight departures from San Diego have been scheduled for Sunday morning so that participants can attend the Saturday afternoon party.