



PSYCHOPHARMACOLOGY NEWSLETTER

(Division 28 - The American Psychological Association)

Issue Number 4

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VOTE 28

Once again we have the opportunity to increase the number of Division 28 members on the APA Council of Representatives. When you receive your ballot from APA, PLEASE VOTE.

Last year, with approximately 1000 members of the Division, only 369 of us gave any of our allocation of 10 votes to Division 28. Of this total, only 98 members gave more than 5 of their total allocation to the Division. This gives us just barely enough votes for one representative to the Council. If there is any decrease in our allocation this year we will lose this one representative.

I realize that many of us have additional Divisional memberships and these other Divisions are also seeking our support. However, if your research and/or clinical interests deal with the medical or non-medical use of drugs, or behavioral toxicology, then I believe that Division 28 represents your interests.

We need your allocation and we need your participation in the Division.

*Conan Kornetsky
President, Division 28*

YOUNG PSYCHOPHARMACOLOGIST AWARD RECIPIENT FOR 1985

Dr. Barbara Slifer of the University of New Orleans was named the recipient for 1985 of the Young Psychopharmacologist Award. The award was presented at the August meeting of the American Psychological Association in Los Angeles where Dr. Slifer received a \$500 cash prize, a bronze plaque, and her expenses paid to deliver an address at the annual meeting.

Dr. Slifer received her M.S. (1976) and Ph.D. (1980) in Experimental Psychology from the University of Wyoming. Her research in the laboratory of Dr. Charles Ksir involved the study of drug effects on behavior under different levels of stimulus control and the study of adjunctive behavior. She was then awarded an N.I.H. postdoctoral fellowship to study the schedule-induction of i.v. drug self-administration in the laboratories of Dr. Robert L. Balster at the Medical College of Virginia. Her studies in this area demonstrated that i.v. self-

administration of nicotine could be schedule-induced in rhesus monkeys.

The other focus of her work at MCV involved the study of the subtle differences in the properties of kappa and sigma agonists and comparing these to the effects of phencyclidine. Her major strategy was to compare the effects of stereoisomers of the putative sigma agonist N-allylnormetazocine (SKF 10,047) and other benzomorphans. Her early studies in this area demonstrated that the positive reinforcing properties of N-allylnormetazocine and cyclazocine reside in the (+)-isomers, thus clarifying the previously contradictory reports that PCP, a sigma agonist, was self-administered while N-allylnormetazocine was not. She conducted further studies using drug discrimination procedures which demonstrated that kappa and sigma properties can be readily distinguished. These studies suggested that N-allylnormetazocine and other benzomorphans that were not self-administered were not reinforcers due to kappa effects and not sigma effects as many had supposed. To examine this possibility, she studied the kappa and sigma effects of the isomers of N-allylnormetazocine using a drug discrimination procedure in which animals were trained to discriminate a kappa agonist from a sigma agonist. This study was conducted while an adjunct faculty member at the University of North Carolina in collaboration with Dr. Linda Dykstra. The results demonstrated a clear separation of the kappa-and sigma-like effects between the isomers of the benzomorphan. In a related study the analgesic-like effects of the stereoisomers of N-allylnormetazocine were compared to PCP and morphine in squirrel monkeys on an electric shock titration procedure. This research indicated a lack of significant analgesic-like effects for either isomer of the opiate.

Dr. Slifer is now a member of the faculty of the University of New Orleans' Department of Psychology where her recent work, supported by a N.I.D.A. grant, involves the study of opiate - antihistamine interactions by comparing the discriminative and reinforcing properties of such combinations with drugs representing opiate subtypes.

MINUTES OF DIVISION 28 BUSINESS MEETING

August 24, 1985 - Los Angeles, CA

J. Harvey convened the meeting at 4:12 p.m., with approximately 25 Division members attending.

Minutes of the August 1984 Business meeting were approved as published in the October 1984 Division Newsletter.

President Harvey presented the 1985 recipient of the Young Psychologist Award: Dr. Barbara Slifer of the University of New Orleans. Dr. Slifer delivered the first invited address of the Los Angeles meeting.

Jim Howard, Council representative, reported on Council's actions:

1. APA is in reasonable financial shape, and Psychology Today may 'break even' in mid 1986. In response to a question from the floor, Marlyne Kilbey (member of the APA Finance Committee) reported APA's response to requests from Division 28 and others to drop tobacco ads, noting that management has identified the financial point at which such ads could be dropped.
2. APA is moving toward merging with the Association for the Advancement of Psychology.
3. Council unanimously passed the final report of the Committee on Animal Research and Experimentation.
4. Jim discussed the progress of the Task Force on the Re-organization of APA, outlining the primary issues under discussion.

President Harvey presented the state of our treasury, as managed by Maxine Stitzer, treasurer. During the period from April 1, 1984, to March 31, 1985, our total income was \$6431: \$3350 from 11 corporate affiliates and the remainder from membership dues and interest. Total expenses were \$7981, with hospitality suites at the 1984 APA convention and the 1984 FASEB meeting (\$5017) and newsletter costs (\$2487) being the primary expenses. Our bank balance on March 31, 1985, was \$7336.

Membership Chair Don Overton discussed Division membership:

1. Don circulated a list of 60 candidates for membership. All were approved by a voice vote of the members present. Don noted that membership remains stable at approximately 1000 members.
2. 14 new Fellows of Division 28 were announced:
Thomas F. Babor Robert O. Pihl
Marc N. Branch Marc E. Risner
Marylou Cheal James E. Smith
Michael Davis Muriel D. Vogel-Sprott
Jack E. Henningfield Michael J. Walsh
Vincent P. Houser Ronald W. Wood
Nancy J. Leith Alice M. Young
3. Overton requested nominations for Fellow status. To nominate a Division member for Fellow status, send the member's name to the new Membership Chair: James E. Smith, Dept. of Psychiatry, Louisiana State University

Medical Center, P.O. Box 33932, Shreveport, LA 71130.

Sharon Hall, 1984 Program Chair, provided information about the 1985 Division convention program.

1. She noted good attendance at two new sessions this year: a Citation Paper Session recognizing noteworthy papers, and a 'State of the Art' address.
2. One innovation suggested for the 1986 program is a joint session sponsored by several scientific Divisions, in which a poster session at the end of the day will be followed by a wine-and-cheese social hour. In the same vein, Jim Howard reported a preconvention meeting of representatives of Division 1, 3, 6, 25, & 28, which explored ways to improve scientific sessions of the annual convention.
3. Marlyne Kilbey, Program Chair for 1986, solicited suggestions for the 1986 meeting to be held in Washington, D.C. Send these suggestions to M. Marlyne Kilbey, Dept. of Psychology, Wayne State University, 71 West Warren Ave., Detroit, MI 48202.
4. All present congratulated Sharon on a job well done.

President Harvey announced the results of the Division election:

President-elect: Don Overton

Member-at-large: John Grabowski

President Harvey presented the executive committee's proposed slate of candidates for the 1985 election. No new nominations were received from the floor. The officers to be elected and the candidates proposed are:

President-elect: George Bigelow and Linda Dykstra

Member-at-large: Marian Fischman and Sharon Hall.

Ron Wood, chair of the standing Neurobehavioral Toxicology and Test Standards Committee, reported that there is a good chance for new legislation to control toxic wastes. He encouraged Division members to write to their Congressional representatives in support of such legislation. To facilitate this, Ron will put a draft letter in the Division newsletter.

Division 28 officers for the coming year are:

Elected:	Term	Years
President		
Conan Kornetsky	9/85-8/86	
President-elect		
Donald Overton	9/85-8/86	
Past-president		
John Harvey	9/85-8/86	
Council representative		
Jim Howard	8/85-2/88	3
Members-at-large		
Linda Dykstra	9/83-8/86	3
Roy Pickens	9/84-8/87	3
John Grabowski	9/85-8/88	3

<i>Appointed:</i>	<i>Term</i>	<i>Years</i>
Treasurer Jack Henningfield	9/85-8/88	3
Secretary Alice Young	9/85-8/87	2
Program chair M.M. Kilbey (1986)	9/85-8/86	
Past-program chair Sharon Hall (1985)	9/85-8/86	
Incoming program chair H.L. Evans (1987)	9/85-8/86	
Newsletter Editor Nancy Leith	9/85-8/88	3
Membership Chair Jim Smith	9/85-8/88	3
CPDD Liaison Jim Woods	9/85-8/87	2
Public Information & International Affairs Travis Thompson	9/85-8/87	2
ASPET Liaison Officers John Harvey	9/85-8/87	2
Lew Seiden	9/85-8/87	2
APA Public Affairs Liaison Bob Balster	9/85-8/88	3

There being no other business, President Harvey adjourned the Business Meeting at 4:50 PM.

Minutes submitted by A. Young

cology/toxicology. Two different curricula are utilized for majors in either pharmacology or toxicology, the latter including an industrial externship. Students accepted into the doctoral program have received a B.S. or M.S. in various undergraduate degree programs including biology, chemistry, psychology, toxicology and pharmacy. The student-faculty ratio is low to permit maximum personal and informal contact among faculty and students. The program is designed to provide a strong foundation in the basic sciences and pharmacology/toxicology with an emphasis on individual independent research. Although several faculty have been involved in other aspects of pharmacology/toxicology, the faculty with expertise and research interests in behavioral pharmacology/toxicology include Drs. Marvin Davis, Henry Pace and Marvin Wilson.

Research interests

Major faculty research interests in behavioral pharmacology and behavioral toxicology are:

Stephen C. Fowler - Over the past 10 years, Dr. Fowler and his students have examined the usefulness of unconventional measures of operant response in the context of behavioral pharmacology. In addition to rate of response, peak force, duration, time integral of force (effort), and interresponse time are routinely recorded and analyzed in experiments designed to elucidate the putative anhedonic, associational and motor effects of neuroleptics (and comparison drugs). Recently, these operant, microanalytic techniques have been used to assess the effects of neuroleptics on rats' licking behavior.

Mary Jeanne Kallman - One of the primary interests in Dr. Kallman's laboratory is central sites for drug action and the discriminative stimulus properties of drugs. Current projects are examining physical and behavioral tolerance to both long-acting and short-acting benzodiazepines and the central GABA brain sites involved in the sedative effects of benzodiazepines. A second area of research has involved methods for screening environmental contaminants for behavioral toxicity. Previously these projects have included behavioral evaluation in both adult and neonatal mice. Ongoing projects involve examination of the learning deficits produced by the prenatal exposure to halogenated hydrocarbons and, in collaboration with Dr. Marvin Wilson, utilizing a conditional taste aversion paradigm to examine the changes in cutaneous sensitivity produced by various pyrethroids.

Thomas W. Lombardo - Dr. Lombardo's current interests are in the mechanisms that maintain cigarette smoking and interfere with self-imposed abstinence. One focus of the research is on the relationship between smoking and emotion. Studies on the effects of smoking on motor force psychophysics during different stress levels are underway. Post-cessation weight gain

BEHAVIORAL PHARMACOLOGY AND TOXICOLOGY AT THE UNIVERSITY OF MISSISSIPPI

Two departments at the University of Mississippi, Oxford campus, provide training in behavioral pharmacology and toxicology: the Department of Psychology and the Department of Pharmacology. Students can maximize the expertise available on our campus by taking interdepartmental course work and by becoming involved in collaborative research projects.

The Department of Psychology is housed in Peabody Hall and has two Ph.D. granting programs: an APA-approved clinical training program and a general experimental program. Faculty and student interests in behavioral pharmacology include both basic animal research and more applied human psychopharmacology. Both research and teaching assistantships are available for predoctoral training. Currently the predoctoral students in the experimental area include several students with ongoing behavioral pharmacology/toxicology research projects. Faculty in the Department of Psychology with expertise and research interests in behavioral pharmacology or toxicology include Drs. William Crowder, Stephen Fowler, Mary Jeanne Kallman and Thomas Lombardo. Graduate students currently involved in research projects in this area include: Joe Tizzano, Betsy Morgan, Mike Durnman, Sandi Gramling, Ray Liao and Paul Skoldager.

The Pharmacology Department is located in the School of Pharmacy at the University of Mississippi and offers both the M.S. and Ph.D. degree in pharma-

mechanisms are being evaluated with metabolic and activity level studies. Psychophysiological measures of nicotine tolerance in smoking clinic subjects are being collected to determine whether they predict post-cessation withdrawal symptom intensity and abstinence duration. Less emphasized are studies on the effects of post-cessation feedback on health improvements (e.g., pulmonary function, submaximal exercise ability) on long-term abstinence rates.

Marvin C. Wilson - One research interest of Dr. Wilson's is the behavioral aspects of neonatal lead intoxication, specifically the influence of lead burdens on the learning ability of offspring. One technique that has been used to assess these deficiencies is a comparison of the acquisitions of a dopaminergic and non-dopaminergic drug discrimination in lead treated versus control animals. These drugs were chosen since it has been suggested that lead produces selective effects on dopaminergic systems. A second area of research interest is the neuropharmacological and neurochemical basis of dominance behavior. An extensive program is underway to examine the effects of amphetamine and amphetamine derivatives on competition, dominance and submissive behaviors in group-housed monkeys. Currently these phenomenon are also being investigated in rodents utilizing paired competition tests involving social reinforcement and/or access to food pellets. A closely related research interest is a collaborative project with Dr. Tony Verlangieri on the use of social stress to facilitate the development of atherosclerosis in primates. Experiments will be undertaken to ascertain the ability of drugs to prevent an enhancement of atherogenesis without altering social behavior. A third area of interest involves the behavioral toxicology of agrichemicals. The collaborative project with Dr. Kallman to assess the potential of various pyrethroids to produce the cutaneous hypersensitivities reflects this interest.

W. Marvin Davis - Current examples of interests reflect long-term involvements in behavioral pharmacology/toxicology. The behavioral interactions of a kappa opioid receptor agonist, butorphanol, with a classical histamine receptor antagonist, diphenhydramine, are of interest because of recent abuse of the combination of these agents by adolescents. Rewarding properties of the combination, and the two individual drugs require evaluation as does the possibility that an aversive component of the actions of butorphanol might be antagonized by diphenhydramine. An example of a toxicologic interest are studies of ethanol's tissue toxicity and the mechanism involved. Recent efforts have attended to skeletal muscle toxicity, but parallel research into mechanism(s) of CNS toxicity is anticipated. This would consider the role of acetaldehyde metabolism, particularly the possible generation under some conditions of several activated oxygen species.

Henry B. Pace - Research interests in behavioral pharmacology and toxicology revolve around the effects of drugs or other chemicals on the developing organism throughout the entire gestation period, to include a period of time postbirth. Many drugs or compounds used alone or in combination during various stages of pregnancy cause a variety of behavioral changes (defects) to include slow learning, slow reaction times, inability to make decisions, personality problems, etc. An example of this situation would be found in the offspring from mothers who consume alcohol during pregnancy resulting in the development of the condition termed fetal alcohol syndrome which severely handicaps the child. Dr. Pace is also very interested in the long term effects of pesticides and herbicides on human populations following prenatal and neonatal exposure, in the South where many individuals are being continuously exposed to these substances in their potable water.

Students interested in educational opportunities in either program can contact an individual faculty at one of the following addresses:

Department of Psychology

or

Department of Pharmacology

University of Mississippi

University, MS 38677

1986 APA MEETING IN WASHINGTON, D.C.

Message from the Program Chair, Marlyne Kilbey

Marlyne asks that members of Division 28 intending to submit symposia for the 1986 Meeting send tentative outlines and ideas prior to the January 20 formal deadline. Members are also encouraged to submit names of invited speakers for the 1986 Meeting. Marlyne wants to particularly encourage the submission of symposia. Feel free to call her to discuss ideas.

Each member submitting a paper is required to submit a 100-word abstract. Individuals chairing symposia are responsible for submitting a 100-word abstract for each participant in the symposia. Remember that all 100-word abstracts of the Washington Meeting will be published in *Pharmacology, Biochemistry and Behavior*.

Send information to:

M. Marlyne Kilbey, Ph.D.

Dept. of Psychology

Wayne State University

71 W. Warren

Detroit, Michigan 48202

313-577-2802

Nominations for

1986 Young Psychopharmacologist Award

The Psychopharmacology Division (28) of the American Psychological Association (APA) is pleased to announce the continuation of an award program to identify and recognize outstanding research by

promising young psychopharmacologists.

The Young Psychopharmacologist Award, sponsored by the Burroughs Wellcome Fund, will be presented at the next APA Meeting and will consist of a cash award of \$500, an engraved plaque and travel funds to attend and address the APA Meeting. The purpose of the award is to honor each year a young scientist doing original, meritorious work in psychopharmacology and to encourage excellence in research at the interface between the disciplines of pharmacology and psychology.

Individuals eligible for consideration must be nominated by a member or fellow of the Division of Psychopharmacology, and the nomination must be based on work in the area of psychopharmacology/behavioral pharmacology. Persons who are predoctoral trainees or who are no more than five years past the date of receipt of the doctoral degree are eligible for consideration. Each nomination must include three copies of: (1) the nominee's resume' or curriculum vitae; (2) the manuscript(s) describing the research on which the nomination is based; and (3) a statement from the sponsor in support of the nomination. Forward all materials to:

Conan Kornetsky, Ph.D.
Dept. of Behavioral Pharmacology
Boston University School of Medicine
80 E. Concord St. L602
Boston, MA 02118

POSITIONS AVAILABLE

RESEARCH ASSOCIATE: The Bio-Psychology area of the Department of Psychology, Wayne State University, invites applications for a Research Associate position, available in late 1985 or early 1986. This individual will participate in laboratory studies of the behavioral pharmacology of the opioids. Current research in our laboratory focuses on discrimination and tolerance processes. The Associate will also participate

in the biopsychology area's teaching program, offering one course per semester in learning, physiological psychology, or behavioral pharmacology. Qualifications include a Ph.D. in experimental psychology or a related area. Interested individuals should send their vita and a letter describing their research interests to: Alice M. Young, Ph.D., Department of Psychology, Wayne State University, 71 West Warren Avenue, Detroit, MI 48202. Phone: (313) 577-3290 or 577-2800.

POST DOCTORAL FELLOWSHIP: Ph.D. required. \$16,000-26,000/12 months. Research background in one or more of the following areas preferred: human performance/cognition, electrophysiology, neuropsychology, and/or psychopharmacology. Advanced research training in biopsychological aspects of alcohol and/or alcoholism. Opportunity for independent research and specialized training. Two years possible. Position funded by NIAAA training grant. Frank A. Holloway, Ph.D., Director, Biological Psychology Program, Department of Psychiatry and Behavioral Sciences, University of Oklahoma Health Sciences Center, Research Building, 306-R, P.O. Box 26901, Oklahoma City, OK 73190. (405) 271-2011.

ASSOCIATE PROFESSOR: Available September 1, 1985 or later. Salary negotiable. Tenure track in Biological Psychology Ph.D. Program. Duties: teach graduate courses; graduate research supervision; development of a research program directed toward the biopsychological aspects of behavior of relevance to mental health and disease, utilizing electrophysiological, psychophysiological or neuropsychological techniques. Candidate will have a Ph.D. in psychology with a strong background in neuroscience or psychopharmacology and in human research. Oscar A. Parsons, Ph.D., University of Oklahoma Health Sciences Center, Department of Psychiatry and Behavioral Sciences, 5SP540, P.O. Box 26901, Oklahoma City, OK 73190 (405) 271-5275. Equal Opportunity Employer. Closing Date: February 1, 1986.

Members wishing to submit information or articles for inclusion in future Division 28 Newsletters, should send them to the editor:

Nancy J. Leith, Ph.D.
CNS Biology
G.D. Searle & Co.
4901 Searle Parkway
Skokie, IL 60077

