

PSYCHOPHARMACOLOGY NEWSLETTER
(DIVISION 28 - THE AMERICAN PSYCHOLOGICAL ASSOCIATION)

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L. D. BYRD, EDITOR

A MESSAGE FROM THE DIVISION PRESIDENT

A service the President is uniquely qualified to perform for the other members of Division 28 is to bring to your attention the contributions made by the other officers. In addition, I want to point out how you can enhance your participation and influence in the Division.

The principal function of the Division is the program of papers and other scientific communications at the annual APA meeting. The extensive material on this year's program, in the present issue of the Newsletter, gives only a partial indication of the magnitude of the Program Chairperson's responsibility. Many events must be coordinated with the participants, other Divisions and the APA central office under the pressure of stringent deadlines. Our Division is fortunate in the energetic and effective efforts of Klaus A. Miczek, the Program Chairperson this year. I have also admired the performance of his predecessors. Robert L. Balster, George E. Bigelow, Chris E. Johanson and Marion W. Fischman are the most recent of a distinguished and effective succession.

Among the more than 1,000 members of Division 28, only a minority attend the annual APA meeting. The Newsletter has special value as the only communication that reaches all the members and also other recipients, notably the Distinguished and Corporate Affiliates. We are fortunate in Larry D. Byrd's dependable, imaginative and literary performance of the exacting, recurrent task as Editor for the past several years.

Other important functions of the Division, although less conspicuous to the members, are processing new members and evaluating proposals for APA Fellow status. Donald A. Overton, the Membership Chairperson,

performs these functions with extraordinary thoroughness and effectiveness.

The other officers also fulfill important responsibilities. They include Norman A. Krasnegor, who represents Division 28 in the APA Council of Representatives, James W. McKearney, the Secretary, and Maxine L. Stitzer, the Treasurer. John A. Harvey, elected to the Executive Committee by the members of Division 28, participates actively in the two arduous meetings each year. I admire the scientific stature and effective performance of my predecessor as President, Joseph V. Brady, and confidently look forward to similarly distinguished leadership by my successor, John L. Falk.

Valuable financial contributions to Division 28 are made by the Corporate Affiliates. They expand the scope of our activities and also enable us to be one of the few APA Divisions that do not charge a special assessment to the members, thereby helping to maximize the membership.

All members of Division 28 contribute merely by the decision to become and remain members. We welcome your further participation. Very few members make suggestions on the annual nomination ballot, at the annual business meeting, or in letters to the President or to the officers. Therefore, these communications are more effective than you probably realize.

The annual business meeting of Division 28 provides an opportunity for members to add candidates to those proposed by the Executive Committee for elective offices. Such participation has not occurred recently, but it would have the beneficial effect of enhancing our representation of the membership.

Herb Barry III

1981 DIVISION 28 APA PROGRAM

Los Angeles - August 25-28, 1981

Tuesday, August 25:

9:00 - 11:00 a.m.

POSTER SESSION

(Convention Center - Room 217)

- Effects of Codeine on Laboratory Pain: Sociological Differences. W. C. Clark, J. C. Yang and J. C. Dooley, Columbia University.
- Increased Drug Self Administration Due to Deprivation of Other Reinforcers. M. E. Carroll, University of Minnesota.
- Behavior Maintained by Intravenous Injections of Nicotine in Beagle Dogs. M. E. Risner and S. R. Goldberg, NIDA Addiction Research Center, Lexington, Ky.
- Some Neurochemical Aspects of Anxiety. M. P. Sands, C. Co, M. E. Freeman, D. R. Cherek, J. E. Smith and J. D. Lane, Louisiana State University Medical Center.
- Effects of Psychomotor Stimulants on Habituation of Aggression in Mice. J. T. Winslow and K. A. Miczek, Tufts University.
- Comparative Effects of Hallucinogenic Methylated Tryptamines on Primate Behavior. W. J. Heinze, National College; R. F. Schlemmer, Jr. and J. M. Davis, Illinois State Psychiatric Institute; and E. A. Williams, Rosary College.
- Neuroleptic-Induced Changes in Brain-Stimulation Reward: A Motor Artifact? A. Ettenberg, G. F. Bloom and F. E. Bloom, The Salk Institute, San Diego, Ca.
- Alcohol-Opiate Interaction in Genetically Selected Lines of Rats. K. P. Satinder, Lakehead University, Thunder Bay, Ontario.
- Behaviorally-Induced Decreases in Cardiovascular Activity and Effects of Cocaine. L. D. Byrd and B. J. Reints, Yerkes Regional Primate Research Center, Emory University.
- Ketamine Facilitation of a Classically Conditioned Association. M. J. Scavio, Jr., P. Scavio, M. E. Francis and L. M. McLeod, California State University, Fullerton.
- Hyperactive Neonatal Rats: Effects of Thyrotropin-Releasing Hormone and d-Amphetamine. G. K. Hodge, University of New Mexico.
- Atmospheric Ionization Effects on Serotonin Levels in Rats under Stress. K. Mizusawa, Pennsylvania State University, Erie.
- Morphine Increases Water Consumption: Relationship to Other Morphine Effects. J. M. Stapleton, A. J. Castiglioni, Jr., and J. C. Liebeskin, University of California, Los Angeles.
- Naloxone and Fentanyl as Discriminative Stimuli for Responses to Color. A. M. Young, Wayne State University.
- Operant Anhedonic Differences between High and Low Motor Effect Neuroleptics. W. O. Faustman and S. C. Fowler, University of Mississippi.
- Fine Motor Coordination as a Predictor of Movement Side-Effects and Therapeutic Response to Antipsychotic Medications. J. P. Houlihan and L. F. Gosenfeld, Brentwood VA Medical Center, Los Angeles.
- Social Stressors as Experimental Settings in Human Psychopharmacology. R. Kohnen, University of Erlangen-Nuremberg, Federal Republic of Germany.

- The Effects of a Patient Package Insert for Valium. B. Mansbridge, S. Fisher and D. A. Lankford, University of Texas Medical Branch, Galveston.
- Human Verbal Behavior Maintained under Fixed-Interval Schedules: Effects of d-Amphetamine. M. L. Stitzer, R. R. Griffiths and G. E. Bigelow, Johns Hopkins University School of Medicine.
- Validation of a Computerized Administration of a Mood Adjective Checklist. D. A. Lankford, B. Mansbridge and S. Fisher, University of Texas Medical Branch, Galveston; and R. C. Pillard, Boston University School of Medicine.
- Earthworm Behavior in a Modified Running Wheel. C. I. Abramson, R. W. Marian and H. Marcucella, Boston University.
- Concept Shift in Atlantic Bottlenose Dolphins (*Tursiops truncatus*). L. L. Adler, Molloy College and Mystic MarineLife Aquarium, Mystic, Ct., and H. E. Adler, Yeshiva University.
- Sexual Receptivity and Responsiveness to Ovarian Hormones in Young and Old Female Hamsters. G. D. Burack and A. A. Gerall, Tulane University.
- Multiple Muscle-Site Biofeedback and the Reduction of Arousal. T. G. Burish and M. C. Shirley, Vanderbilt University.
- Prenatal Hormone Influences on Human Sexually Dimorphic Behavior. M. Hines and C. Shipley, University of California, Los Angeles.
- Inhibition and Disinhibition of Aversively-Motivated Behavior. J. F. Connelly and J. M. Connelly, Pittsburg State University.
- An Analysis of Patterning in the Goldfish. P. A. Couvillon, University of Hawaii.
- Parietal and Frontal Eye Field Neglect in the Rat. D. P. Crowne, C. Richardson and M. Moss, University of Waterloo.
- Effects of Interlitter Pup and Bedding Exchanges on Huddling in Neonatal Rats. R. L. Deni and J. Miele, Rider College.
- Prepubertal and Postpubertal Social Isolation Effects on Receptivity in Rats. B. B. Gorzalka, S. Kleinfeld and L. Raible, University of British Columbia.
- Visual Thresholds and Tactile Localization in Dyslexics and Normal Readers. K. Gross-Glenn, Ft. Lauderdale, Fl., and S. Rothenberg, McLean Hospital, Harvard Medical School, Belmont, Ma.
- Cerebral Evoked Potentials in Relation to First and Second Pain. S. W. Harkins and D. D. Price, Medical College of Virginia, Virginia Commonwealth University.
- Brain Functioning in Forecasting. D. Loye, Institute for Futures Forecasting, Carmel, Ca., and Neuropsychiatric Institute, UCLA School of Medicine, Los Angeles.
- Peripheral Control of Face Grooming in Rats. J. W. Lussier, Fordham University.
- Autonomic Responding and Performance on the Picture Completion Test. G. M. Lyons and T. R. McCanne, Northern Illinois University.
- Changes in Heart Rate during a Digit Span Task. T. R. McCanne and G. M. Lyons, Northern Illinois University.
- Effects of Septal Lesions on Cued and Non-Cued Active Avoidance. R. Numan, J. Clark and A. M. Naughten, University of Santa Clara.
- Effects of Fornix Transection and Pituitary-Adrenal Modulation on Extinction Behavior. B. Osborne and T. A. Silverhart, Middlebury College; and J. Seggie, McMaster University.
- Communicative Competence in *Pan troglodytes*: Rising (or Falling) to the Occasion. C. C. O'Sullivan, University of Oklahoma, C. Yeager,

- Central Washington University, B. Ingersoll, University of Oklahoma, and D. Autry, Central Washington University.
- The Effect of Periodicity of Activity on Food Intake. D. L. Pure, University of Illinois at Chicago Circle and Hines VA Hospital, and J. D. Davis, University of Illinois at Chicago Circle.
- The Effect on Food Intake of Forced Running: Female Rats. D. L. Pure, University of Illinois at Chicago Circle and Hines VA Hospital, and J. D. Davis, University of Illinois at Chicago Circle.
- Effects of Natural and Laboratory Environments on Ground Squirrel Brains. M. R. Rosenzweig and E. L. Bennett, University of California, Berkeley; P. W. Sherman, Cornell University; and M. Alberti, University of California, Berkeley.
- Teaching Sign to Great Apes in a Zoo Environment. V. G. James, B. E. Diehl and P. J. Wirsche, Pan American University.
- Cholecystokinin versus Lithium Chloride Effects on Food Hoarding in Rats. S. Farrar and T. Schallert, University of Texas at Austin.
- A Sociobiological Questionnaire (SQ) to Assess Sexual Dimorphism and Assortative Mating. M. Ross and D. D. Thiessen, University of Texas, Austin.
- Unilateral Vagotomy Does Not Prevent VMH Obesity. M. G. Tordoff, C. R. Kurtz and D. Novin, University of California, Los Angeles.
- A Comparative Analysis of Intake of Sapid Solutions after Shifts to Water. R. Wong, University of British Columbia.
- Laboratory Ethology: A New Approach in Animal Research. K. C. Brechner, Time River Laboratory, Pasadena, Ca.; and L. D. Poulos and E. Gardner, California State University.

- 11:00 - 11:50 a.m. Invited Address: NEUROCHEMICAL, BEHAVIORAL AND PHARMACOLOGICAL INTERACTIONS
(Convention Center - Room 211)
L. S. Seiden, The University of Chicago.
J. V. Brady, Johns Hopkins University School of Medicine, Chair.
- 12:00 - 1:00 p.m. Paper Session: PSYCHOPHARMACOLOGY: ALCOHOL INTAKE
(Convention Center - Room 216B)
R. Meisch, University of Minnesota School of Medicine, Chair.
Alcohol Response and Consumption: Effects of Self-Control and Responsibility Attributions. J. A. Young and R. O. Pihl, McGill University.
Alcohol Consumption and the Evaluation of Deviant Behaviors. R. Radlow and D. Grayson, San Diego State University, and P. M. Hurst, Ministry of Transport, New Zealand.
The Validity of Perceptual Sensitivity Estimates in Alcohol Induced States. M. E. Bates, Rutgers University.
Frequency of Ethanol Availability Periods and Rate of Ethanol Consumption. J. S. MacDonall, Fordham University, and H. Marcucella and I. Monroe, Boston University.
- 1:00 - 3:00 p.m. Symposium: RECENT DEVELOPMENTS ON THE INTERACTION OF NEURO-TRANSMITTERS AND FEEDING BEHAVIOR
(Convention Center - Room 209)
R. B. Kanarek, Tufts University, Chair.

Long-Term Diet and Drug Treatment Effects on Food Selection.
G. H. Anderson, University of Toronto.
Involvement of Central Dopaminergic Neurons in the Control of
Food Intake. T. Heffner, University of Chicago.
Acute Administration of Pharmacological Agents Modifies Diet
Selection in Rats. R. B. Kanarek, R. Marks-Kaufman, N. Orthen-
Gambill and L. Ho, Tufts University.
Effects of Maternal Diet on the Development of Fetal Neurotrans-
mitters. L. Lytle, University of California, Santa Barbara.
Discussant: G. A. Bray, UCLA/Harbor General Medical Center.

3:00 - 5:00 p.m.

Paper Session: HUMAN SUBSTANCE ABUSE
(Convention Center - Room 214A)

M. L. Stitzer, Johns Hopkins University School of Medicine, Chair.
Confirmatory Factor Analyses Partitioning Adolescent Substance
Use Frequency and Quantity. G. J. Huba and P. M. Bentler,
University of California, Los Angeles.
Does Prior Skill Reduce Alcohol-Induced Impairment? D. J. Bierness
and M. D. Vogel-Sprott, University of Waterloo.
Acute Effects of Oral Methadone in Methadone Maintenance Subjects.
M. E. McCaul, M. L. Stitzer, G. E. Bigelow and I. Liebson,
Johns Hopkins University School of Medicine.
The Incidence of Heavy Drinking in a Community Mental Health
Center's Outpatient Population. M. J. Stark, Lewis and Clark
College.
A Comparison of Mother and Daughter Personality and Drug Use.
M. D. Newcomb, G. J. Huba and P. M. Bentler, University of
California, Los Angeles.
Marijuana Intoxication Experiences and Differential Reinforcing
Potentials: A Replicated Study. W. D. Fabian and S. M. Fishkin,
University of Oklahoma Health Sciences Center.

Wednesday, August 26:

12:00 - 12:50 p.m. Invited Address: NEUROTRANSMITTERS, DRUGS AND BEHAVIOR: MOLECULAR
MYSTERY OR CELLULAR SCHEMERY?
(Convention Center - Room 214A)

F. E. Bloom, Salk Institute, San Diego, Ca.

L. Stein, University of California, Irvine, Chair.

2:00 - 2:50 p.m. Symposium: PATTERNS AND CORRELATES OF DRUG USE: A LONGITUDINAL
STUDY
(Convention Center - Room 208)

W. E. Schlenger, Research Triangle Institute, N.C., Chair.

Patterns of Drug Use in the Treatment Outcome. Prospective Study.
R. M. Bray, S. G. Craddock and W. E. Schlenger, Research
Triangle Institute, N.C.

Sex Differences in Drug Use and Implications for Treatment. S. G.
Craddock, B. Cavanaugh, M. Allison and R. L. Hubbard, Research
Triangle Institute, N.C.

Drug Use and Depressive Symptoms. H. M. Ginzburg, National Insti-
tute on Drug Abuse; and M. Allison and R. L. Hubbard, Research
Triangle Institute, N.C.

Discussant: W. Pollin, National Institute on Drug Abuse.

- 3:00 - 5:00 p.m. Symposium: PSYCHOMOTOR STIMULANTS: MECHANISM OF ACTION
(Convention Center - Room 206)
G. F. Koob, The Salk Institute, Chair
Drug-Induced Motor Behavior: Mechanism of Action. P. H. Kelly, University of Southern California School of Medicine.
Anatomical and Pharmacological Specificity in the Role of the Mesolimbic DA System in Stimulant Action. G. F. Koob, The Salk Institute.
The Role of the Mesolimbic DA System in Stimulant Self-Administration. D. C. S. Roberts, Carleton University.
The Role of the Mesolimbic DA System in the Rate-Dependent Effects of Stimulants on Conditioned Behavior. T. W. Robbins, University of Cambridge, England.
The Influence of Non-Dopaminergic Neurotransmitters in Behavioral Effects of Stimulants. M. A. Geyer, University of California, San Diego.
- 5:00 p.m. INFORMAL PAPER SESSION
(Hilton, Hospitality Suite)
A. Young, Wayne State University, Chair.

Thursday, August 27:

- 9:00 - 11:00 a.m. Symposium: PSYCHOPHARMACOLOGY OF CIGARETTE SMOKING: FROM LABORATORY TO TREATMENT
(Convention Center - Room 211)
E. R. Gritz, UCLA School of Medicine, Chair.
Plasma Nicotine and Cotinine Concentrations in Habitual Smokeless Tobacco Users. E. R. Gritz, UCLA School of Medicine.
Affect Manipulations which Increase Cigarette Smoking. J. E. Rose, UCLA School of Medicine.
Alcohol Increases Cigarette Smoking: A Laboratory Demonstration with Narcotic Addicts. J. Mintz, UCLA School of Medicine and VA Medical Center - Brentwood, Los Angeles.
Cardiovascular Effects of Nicotine and Carboxyhemoglobin during Smoking. D. P. L. Sachs, Case Western Reserve University.
Discussant: M. E. Jarvik, University of California, Los Angeles.
- 11:00 - 12:50 p.m. Paper Session: PSYCHOPHARMACOLOGY: CIGARETTE SMOKING
(Convention Center - Room 214B)
J. E. Henningfield, Johns Hopkins Univ. School of Medicine, Chair.
Biobehavior Variables Influencing Smoking Behavior. D. R. Denver and M. G. Tremblay, Laval University, Quebec.
Measurement of Smoking Behavior in Non-Laboratory Environments. P. Catchings, S. Morgan, T. Pechacek and R. Pickens, University of Minnesota.
Physiological, Behavioral and Subjective Responses to Cigarette Deprivation. D. K. Hatsukami, J. Hughes and R. Pickens, University of Minnesota.
Response Requirement Influences on Human Methadone and Cigarette Self-Administration. G. E. Bigelow, R. R. Griffiths, M. L. Stitzer and I. A. Liebson, Johns Hopkins University School of Medicine.

Fixed-Interval Value of Monetary Reinforcement and Concurrent Cigarette Smoking. D. R. Cherek, Louisiana State University School of Medicine.

Effects of Nicotine on Human Aggressive Behavior. D. R. Cherek and J. L. Steinberg, Louisiana State University School of Medicine.

Effects of Double-Blind Ethanol and Pentobarbital Administration on Cigarette Smoking. J. E. Henningfield, R. R. Griffiths and L. D. Chait, Johns Hopkins University School of Medicine.

1:00 - 1:50 p.m. Invited Address: IT IS TIME FOR THE DOG TO CATCH UP WITH ITS TAIL (Convention Center - Room 214B)

J. B. Appel, University of South Carolina.

J. A. Dinsmoor, Indiana University, Chair.

2:00 - 4:00 p.m. Symposium: BENZODIAZEPINES (VALIUM) AND OTHER SEDATIVES: EFFECTS, USE AND ABUSE (Convention Center - Room 211)

J. Grabowski, National Institute on Drug Abuse, Chair.

Operant Behavior, Physiological Correlates, Subjective Report: Comparison of Three Benzodiazepines. J. Grabowski, National Institute on Drug Abuse; C. O'Brien, T. McLellan, G. Woody and D. Ehrman, VA Medical Center, Philadelphia.

Patterns of Human Sedative Self-Administration. M. Healey and R. Pickens, University of Minnesota.

Self-Administration of Benzodiazepines and Barbiturates. R. R. Griffiths and G. E. Bigelow, Johns Hopkins University School of Medicine.

Benzodiazepine Use among Methadone Maintenance Patients: Interventions for Use Reduction. M. L. Stitzer, R. R. Griffiths, G. E. Bigelow and I. Liebson, Johns Hopkins University School of Medicine.

Discussant: M. Miller, Hoffmann - La Roche, Inc.

4:00 - 5:00 p.m. Presidential Address: PHARMACOLOGICAL APPLICATION OF EINSTEIN'S THEORY OF RELATIVITY (Convention Center - Room 208)

H. Barry, III, University of Pittsburgh School of Pharmacy.

K. A. Miczek, Tufts University, Chair.

5:00 - 6:50 p.m. EXECUTIVE COMMITTEE MEETING (Hilton, Wilshire A)

H. Barry, III, University of Pittsburgh School of Pharmacy, Chair.

Friday, August 28:

9:00 - 11:00 a.m. Symposium: AFFECT AND ACTION: RELATIONSHIPS BETWEEN LIMBIC AND EXTRAPYRAMIDAL FUNCTION I (Convention Center - Room 214B/C)

L. L. Butcher, University of California, Los Angeles, Chair.

Anatomic Substrates of Limbic-Extrapyramidal Interactions. K. Talbot and L. L. Butcher, University of California, Los Angeles.

Brain Peptides and Limbic-Extrapyramidal Interactions. G. Paxinos, University of New South Wales, Australia.
Nucleus Accumbens and Autonomic and Skeletal Motor Responses. J. W. Wilson, University of California, Los Angeles.
Functional Interface between the Limbic System and Motor Systems. G. J. Mogenson, University of Western Ontario.

12:00 - 1:00 p.m.

Symposium: AFFECT AND ACTION: RELATIONSHIPS BETWEEN LIMBIC AND EXTRAPYRAMIDAL FUNCTION II
(Convention Center - Room 206)

L. L. Butcher, University of California, Los Angeles, Chair.

Mood and Movement: Functional and Clinical Correlates. G. K. Hodge, University of New Mexico.

Clinical Correlates of Limbic and Extrapyramidal Function. J. Stevens, University of Oregon.

1:00 - 1:50 p.m.

Invited Address - Distinguished Service Award:
PERSPECTIVES OF BEHAVIORAL PHARMACOLOGY AND SUBSTANCE ABUSE
(Convention Center - Room 208)

N. Krasnegor, National Institute of Child Health and Human Development.

L. D. Byrd, Yerkes Regional Primate Research Center, Emory University, Chair.

2:00 - 4:00 p.m.

Symposium: PARAMETERS OF ALCOHOL AS A REINFORCER
(Convention Center - Room 216A)

W. M. Cox, University of Minnesota, Chair.

Amine-Aldehyde Condensation Products May Underlie the Reinforcing Effects of Alcohol. C. L. Melchior, University of Illinois Medical Center.

Animal Analogues for Studying the Reinforcing Properties of Alcohol. J. E. Henningfield, National Institute on Drug Abuse, Addiction Research Center and Johns Hopkins University School of Medicine.

Relative Effectiveness of Alcohol and Other Reinforcers. R. A. Meisch, University of Minnesota.

Tension Reduction Hypothesis: The First Behavioral Explanation. P. E. Nathan, Rutgers University.

Expectancy Effects in Reinforcement from Alcohol. A. R. Lang, Florida State University.

Alcohol Consumption as a Social Reinforcer. J. M. Schaefer, University of Minnesota.

Discussant: H. Barry, III, University of Pittsburgh School of Pharmacy.

4:00 - 5:50 p.m.

BUSINESS MEETING
(Convention Center - Room 208)

H. Barry, III, University of Pittsburgh School of Pharmacy, Chair.