

NEWSLETTER

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INTERNATIONAL STUDY GROUP INVESTIGATING DRUGS AS REINFORCERS

CORRESPONDENCE

ABOUT ISGIDAR

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ABOUT ISGIDAR NEWSLETTER

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Satellite Session on Drugs as Reinforcers, Philadelphia, PA, Sunday, June 3, 1979

As in previous years ISGIDAR will sponsor a scientific meeting as a satellite session to the annual meeting of the Committee on Problems of Drug Dependence. The session will be held all day June 3, prior to the CPDD meeting. Registration will begin at 8:45. Pre-registration is encouraged. The program for the scientific meeting and a registration form are included in this newsletter. ISGIDAR annual dues of \$15 will be collected as the registration fee for the meeting.

The Committee on Problems of Drug Dependence meeting is June 4-6. In addition to the ISGIDAR satellite session, other satellite sessions include: drugs as discriminative stimuli the evening of June 4; Khat, pharmacology and abuse potential the afternoon of June 6; and Protracted effects of perinatal drug dependence all day June 7. Information on the CPDD meeting can be obtained by writing Dr. Leo Hollister, Veterans Administration Hospital, 3801 Miranda Ave., Palo Alto, CA 94304.

ISGIDAR Business Meeting

The annual business meeting of ISGIDAR will be held immediately following the scientific session on June 3, from 4:00 to 5:00 p.m. All members are asked to attend. The primary business will be to elect a new slate of officers. The present officers who have served two one-year terms are Roland R. Griffiths, President; Tomoji Yanagita, Vice-President; Robert L. Balster, Secretary; and David A. Downs, Treasurer. Please have nominations in mind for these offices.

ISGIDAR Bibliography

The third edition of the ISGIDAR Bibliography is included in this newsletter. The cooperation of the membership in supplying the citations is appreciated. A form for submission of new publications is also enclosed. In the bibliography, published papers for which reprints are available are designated P, IP designates papers in press. A reprint will be mailed when available. Papers designated NA are published, but reprints are unavailable. Send reprint requests to the address indicated for each paper.

PSYCHOPHARMACOLOGY PROGRAM AT APA CONVENTION

ISGIDAR members and friends are encouraged to attend the program of the Division of Psychopharmacology at the American Psychological Association convention, September 1-5, in New York City. The Division's program has been selected, and appears to be very interesting. The content of the program covers a wide range of topics -- reflecting the wide interests and impact of psychopharmacology. Invited addresses have been arranged in the areas of clinical psychopharmacology, neuropharmacology, behavioral toxicology, and drug abuse.

Gerald Klerman, director of ADAMHA, will speak on "Treatment Assessment and New Research Directions."

Solomon Snyder, from Johns Hopkins Medical School, will speak on "The Brain's Own Opiates."

Bernie Weiss, of the University of Rochester Medical Center, will speak on "Food Additives and Hyperkinesis: Current Evidence."

Vincent Dole, of Rockefeller University, will speak on "The Metabolic Theory of Addiction."

In addition, C. R. Schuster will deliver his divisional Presidential address on "The Relationship of Psychopathology to Drug Abuse."

A variety of symposia have been arranged on such topics as drug effects on repeated acquisition performance; memory consolidation; psychopharmacology and aging; drugs, hormones and aggression; ethanol reinforcement; pharmacological and psychological treatment combinations; neurophysiological correlates of drug action; cigarette smoking; and analysis and treatment of substance abuse.

Papers have been accepted dealing with drug self-administration, animal and human behavioral pharmacology, drug discrimination; neuropharmacology and clinical psychopharmacology.

Unverified Citations	Address Code	Availability Code
Aigner, T.G. and Balster, R.L. Choice behavior in rhesus monkeys: Cocaine vs. food. <i>Science</i> , <u>201</u> : 534-535, 1978.	1	P
Aigner, T.G. and Balster, R.L. Rapid substitution procedure for intravenous drug self-administration studies in rhesus monkeys. <i>Pharmacol. Biochem. Behav.</i> <u>10</u> :105-112, 1979.	1	P
Baird, J.B. and Balster, R.L. Analysis of nominal dose-effect data with an advanced programmable calculator. <i>Neurobehav. Toxcol.</i> <u>1</u> : in press, 1979.	1	IP
Balster, R.L. and Ford, R.D. The discriminative stimulus properties of cannabinoids: A review. In Ho, B.T., Richards, D.W., III and Chute, D. (Eds.), <u>Drug Discrimination and State-Dependent Learning</u> . 1978, New York: Academic Press, pp. 131-147.	1	P
Beardsley, P.M., Lemaire, G.A. and Meisch, R.A. Ethanol as a reinforcer for rats under conditions of concurrent access to food and water. <u>Reports from the Research Laboratories, Department of Psychiatry, University of Minnesota, No. PR-78-2</u> , December 1, 1978.	14	P
Bedford, J.A., Bailey, L.P., and Wilson, M.C. Cocaine reinforced progressive ratio performance in the rhesus monkey. <i>Pharmacol. Biochem. Behav.</i> , <u>9</u> :631-638, 1978.	2	P
Bigelow, G.E., Liebson, I., Kaliszak, J., Griffiths, R.R. Therapeutic self-medication as a context for drug abuse research. In: <u>Self-Administration of Abused Substances: Methods for Study</u> . Krasnegor, N. (ed.) pp. 44-58. NIDA Research Monograph #20, DHEW public. No. (ADM) 78-727, 1978.	3	P
Carroll, M.E., Francis, C.P. and Meisch, R.A. Food deprivation increases oral and intravenous drug intake in rats. <i>Science</i> 1979 (in press).	4	IP
Carroll, M.E. and Meisch, R.A. Etonitazene as a reinforcer: Oral intake of etonitazene by rhesus monkeys. <i>Psychopharmacology</i> , <u>59</u> :225-229, 1978.	4	P
Carroll, M.E. and Meisch, R.A. Effects of food deprivation on etonitazene consumption in rats. <i>Pharmacol. Biochem. Behav.</i> , <u>10</u> :155-159, 1979.	4	P

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Carroll, M.E. and Meisch, R.A. Concurrent etonitazene and water intake in rats: Role of taste, olfaction and auditory stimuli. <i>Psychopharmacology</i> , (in press), 1979.	4	IP
Chait, L.D. and Balster, R.L. Effects of combinations of phencyclidine and pentobarbital on schedule-controlled behavior in the squirrel monkey. <i>Pharmacol. Biochem. Behav.</i> <u>9</u> :201-205, 1978.	1	P
Chait, L. D. and Balster, R.L. Interaction between phencyclidine and pentobarbital in several species of laboratory animals. <i>Communications in Psychopharmacology</i> , 2:351-356, 1978.	1	P
Chiba, S., Moreton, J.E. and Khazan, N. Tolerance and cross-tolerance to toxic effects of morphine, methadone and 1-alpha-acetylmethadone (LAAM) in naive and morphine dependent rats. <i>Japan J. Pharmacol.</i> , <u>28</u> :498-501, 1978.	11	NA
Cone, E.J., Risner, M.E. and Neidert, G.L. Concentrations of phenethylamine in dog following single doses and during intravenous self-administration. <i>Res. Comm. Chem. Path. Pharmacol.</i> , <u>22</u> :211-232, 1978.	16	P
DeNoble, V.J. and Begleiter, H. Alcohol self-administration in monkeys (<i>Macaca Radiata</i>): The effects of prior alcohol exposure. <i>Pharmacol. Biochem. Behav.</i> , <u>8</u> :391-397, 1978.	5	P
Downs, D.A. Interactions of acetylmethadol or methadone with other drugs in rhesus monkeys. <i>Pharmacol. Biochem. Behav.</i> <u>10</u> :(in press), 1979.	6	IP
Downs, D.A., Harrigan, S.E., Willey, J.N., Robinson, T.E., and Labay, R.J. Continuous stimulant self-administration in rhesus monkeys. <i>Res. Comm. Psychol. Psychiat. Beh.</i> , <u>4</u> :39-49, 1979.	6	P
Ellingboe, J., Mendelson, J.H., Varanelli, C.C., Neuberger, O. and Borysow, M. Plasma alpha-amino-n-butyric acid to leucine (A/L) ratio: Normal values in alcoholics. <i>J. Studies on Alcohol</i> , <u>39(9)</u> :1467-1476, 1978.	15	P
Fielding, S., Wilker, J., Hynes, M., Szewczak, M., Novick, W. and Lal, H. A comparison of clonidine with morphine for antinociceptive and antiwithdrawal actions. <i>J. Pharmacol. Exp. Ther.</i> <u>207</u> :899-905, 1978.	12	P

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Gianutsos, G., Hynes, M.D., Drawbaugh, R. and Lal, H. Similarities and contrasts between the effects of amphetamine and apomorphine in rats chronically treated with haloperidol. <u>Prog. Neuropsychopharmacol.</u> 2:161-167, 1978.	12	P
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Griffiths, R.R. and Bigelow, G.E. Commonalities in human and infrahuman drug self-administration. In: <u>The Bases of Addiction</u> . J. Fishman (ed.), pp. 157-174, Berlin:Dahlem Konferenzen, 1978.	8	P
Griffiths, R.R., Bigelow, G.E. and Liebson, I. Experimental drug self-administration: Generality across species and type of drug. In: <u>Self-Administration of Abused Substances: Methods for Study</u> . NIDA Research Monograph 20. Kranegor, N. (ed.), pp. 24-43. DHEW publ. No. (ADM) 78-727, 1978.	8	P
Griffiths, R.R., Bigelow, G.E. and Liebson, I. Relationship of social factors to ethanol self-administration in alcoholics. In: <u>Alcoholism: New Directions in Behavioral Research and Treatment</u> , Nathan, P.E., Marlatt, G.A. and Loberg, T. (eds.), pp. 351-379. New York: Plenum Publ. Corp. 1978.	8	P
Griffiths, R.R., Brady, J.V. and Bradford, L.D. Predicting the abuse liability of drugs with animal drug self-administration procedures: Psychomotor stimulants and hallucinogens. In: <u>Advances in Behavioral Pharmacology Volume 2</u> , Thompson, T. and Dews, P. (eds.), pp. 163-207, 1979.	8	P
Harrigan, S.E. and Downs, D.A. Continuous intravenous naltrexone effects on morphine self-administration in rhesus monkeys. <u>J. Pharmacol. Exp. Ther.</u> 204:481-486, 1978.	9	P

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Johanson, C.E. and Balster, R.L. A summary of results of drug self-administration studies using substitution procedures in rhesus monkeys. <i>Bull. Narcotics</i> , (in press), 1978.	10	IP
Karoly, A.S., Winger, G., Ikomi, F. and Woods, J.H. The reinforcing property of ethanol in the rhesus monkey: II. Some variables related to the maintenance of intravenous ethanol-reinforcing responding. <i>Psychopharmacology</i> , <u>58</u> :19-25, 1978.	21	P
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Matsuzaki, M. Alteration in pattern of EEG activities and convulsant effect of cocaine following chronic administration in the rhesus monkey. <i>Electroenceph. Clin. Neurophysiol.</i> , <u>50</u> :1-15, 1978.	13	P
Matsuzaki, M. Effects of cocaine on the electrical activity of the brain and cardiorespiratory functions and the development of tolerance in the central nervous system. In: <u>Cocaine: Chemical, Biological, Clinical, Social and Treatment Aspects</u> . Mule, S.J. (ed.), pp. 149-164. Cleveland, Ohio:CRC Press, 1976.	13	P
Matsuzaki, M. and Misra, A.L. Comparison of the convulsant effects of cocaine and pseudococaine in the rhesus monkeys. <i>Brain Res. Bull.</i> , <u>2</u> :417-424, 1977.	13	P
Matsuzaki, M., and Misra, A.L. Cocaine and pseudococaine: Comparative effects on electrical after-discharge in the limbic system of cats. <i>Brain Res. Bull.</i> , <u>3</u> :341-347, 1978.	13	P
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Matsuzaki, M., Spingler, P.L., Whitlock, E.G., Misra, A.L. and Mule, S.J. Comparative effects of cocaine and pseudococaine on EEG activities, cardiorespiratory functions, and self-administration behavior in the rhesus monkey. <i>Psychopharmacology</i> , <u>57</u> :13-28, 1978.	13	P

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Meisch, R.A., Kliner, D.J. and Stark, L.J. Etonitazene as a reinforcer for rats: Effects of food deprivation and food satiation on oral intake. <u>Problems of Drug Dependence, 1978, Proceedings of the Fortieth Annual Scientific Meeting Committee on Problems of Drug Dependence, Inc. Lord Baltimore Hotel, Baltimore, Maryland, June 3-6, 1978.</u>	14	P
Meisch, R.A. and Stark, L.J. Etonitazene as a reinforcer via the oral route for rats: Effects of etonitazene concentration and food intake on etonitazene-reinforced behavior. <u>Reports from the Research Laboratories, Department of Psychiatry, University of Minnesota, No. PR-77-3, October, 1977.</u>	14	P
Mello, N.K. Control of drug self-administration: The role of aversive consequences. In: <u>Phencyclidine abuse: An Appraisal</u> . NIDA Monograph Series, No. 21. Petersen, R.C. and Stillman, R.C. (eds.), pp. 289-308. Rockville, Maryland, 1978.	15	P
Mello, N.K. (ed.). <u>Advances in Substance Abuse, Behavioral and Biological Research, Volume I</u> . Greenwich:JAI Press, Inc., 1980, (in press).	15	NA
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Mello, N.K. Behavioral pharmacology of alcohol. In: <u>Handbook of Experimental Pharmacology, Volume Psychotropic Agents, Part 2</u> . Hoffmeister, F. (ed.). Berlin:Springer-Verlag, 1980 (in press).	15	NA
Mello, N.K. and Mendelson, J.H. Marijuana, alcohol, and poly-drug use: Human self-administration studies. In: <u>Self-Administration of Abused Substances: Methods for Study</u> . Krasnegor, N. (ed.), pp. 93-127. Rockville, Maryland, NIDA Monograph Series, No. 20, 1978.	15	P
Mello, N.K. and Mendelson, J.H. Self-administration of an enkephalin analog by rhesus monkey. <u>Pharmacol. Biochem. Behav.</u> 9:579-586, 1978.	15	P

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Mello, N.K. and Mendelson, J.H. Effects of the neuropeptide DG-AVP on morphine and food self-administration by dependent rhesus monkey. <i>Pharmacol. Biochem. Behav.</i> , (in press), 1979.	15	IP
Mello, N.K., Mendelson, J.H., Kuehnle, J.C. and Sellers, M. Human polydrug use: Marijuana and alcohol. <i>J. Pharmacol. Exp. Ther.</i> <u>207(3)</u> : 922-935, 1978.	15	P
Meltzer, L.T., Moreton, J.E. and Khazan, N. Electroencephalographic and behavioral tolerance and cross-tolerance to morphine and methadone in the rat. <i>Toxicol. Applied Pharmacol.</i> <u>45</u> :837-844, 1978.	11	P
Mendelson, J.H., Ellingboe, J., Kuehnle, J.C. and Mello, N.K. Effects of naltrexone on mood and neuroendocrine function in normal adult males. In: <u>Proceedings, 40th Annual Scientific Meeting, Committee on Problems of Drug Dependence</u> , pp.351-357, 1978.	15	NA
Mendelson, J.H., Ellingboe, J., Mello, N.K. and Kuehnle, J.C. Effects of alcohol on plasma testosterone and luteinizing hormone levels. <i>Alcoholism: Clinical & Experimental Research</i> , <u>2(3)</u> :255-258, 1978.	15	P
Mendelson, J.H. and Mello, N.K. Heroin self-administration: An operant analysis. In: <u>Self-Administration of Abused Substances: Methods for Study</u> . Krasnegor, N. (ed.), pp. 128-148. Rockville, Maryland: NIDA Monograph Series, No. 20, 1978.	15	NA
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Mendelson, J.H. and Mello, N.K. The diagnosis of alcoholism. In: <u>Diagnosis and Treatment of Alcoholism</u> . Mendelson, J.H. and Mello, N.K. (eds.), New York: McGraw-Hill, 1979 (in press).	15	NA
Mendelson, J.H. and Mello, N.K. (Eds.). <i>Diagnosis and Treatment of Alcoholism</i> . New York: McGraw-Hill, 1979, (In press).	15	NA
Miksic, S., Shearman, G. and Lal, H. Generalization study with some narcotic and non-narcotic drugs in rats trained for morphine-saline discrimination. <i>Psychopharmacol.</i> , <u>60</u> :103-104, 1978.	12	P

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Riser, M.E. and Jones, B.E. The effects of psychomotor stimulants on single-spatial alternation behavior in dogs. <i>Psychopharmacology</i> , 1979, (in press).	16	IP
Rossi, A.M., Kuehnle, J.C. and Mendelson, J.H. Marijuana and mood in human volunteers. <i>Pharmacol. Biochem. Behav.</i> <u>8</u> :447-453, 1978.	15	P
Shearman, G. and Lal, H. Discriminative stimulus (DS) properties of picrotoxin, bemegride and pentylentetrazol (PTZ): A possible relationship between an anxiogenic action and PTZ-DS. <i>Fed. Proc.</i> <u>38</u> :256, 1979.	12	P
Shearman, G., Miksic, S. and Lal, H. Discriminative stimulus properties of disipramine. <i>Neuropharmacol.</i> <u>17</u> :1045-1048, 1978.	12	P
Stitzer, M.L., Griffiths, R.R. and Liebson, I. Effects of <i>d</i> -amphetamine on speaking in isolated humans. <i>Pharmacol. Biochem. Behav.</i> <u>9</u> (1):57-63, 1978.	17	P
Tessel, R.E. and Woods, J.H. Meta-substituted n-ethylamphetamine self-injection responding in the rhesus monkey: Structure-activity relationships. <i>J. Pharmacol. Exp. Ther.</i> <u>205</u> :274-281, 1978.	18	P
Thompson, T., Glenn, M., Winston, N. and Young, A.M. Chronic effects of methadone on a line tilt generalization gradient in the pigeon. <i>Pharmacol. Biochem. Behav.</i> <u>9</u> :339-346, 1978.	19	P
Tortella, R.C., Moreton, J.E. and Khazan, N. Electroencephalographic and behavioral effects of D-ala ² -methionine-enkephalinamide and morphine in the rat. <i>J. Pharmacol. Exp. Ther.</i> <u>206</u> :636-643, 1978.	11	P
Tortella, F.C., Moreton, J.E. and Khazan, N. Electroencephalographic and behavioral tolerance to and cross-tolerance between D-ala ² -methionine-enkephalinamide and morphine in the rat. <i>J. Pharmacol. Exp. Ther.</i> , 1979, (in press).	11	IP

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Weeks, J.R. and Collins, R.J. Self-administration of morphine in the rat: Relative influence of fixed ratio and time-out. <u>Pharmacol. Biochem. Behav.</u> <u>9</u> :703-704, 1979.	20	P
Woods, J.H. Behavioral effects of cocaine in animals. In: <u>Cocaine: 1977, NIDA Research Monograph 13.</u> Petersen, R.C. and Stillman, R.C., pp. 63-96. Washington, D.C.: U.S. Govt. Printing Office, 1977.	21	P
Woods, J.H. Behavioral pharmacology of drug self-administration. In: <u>Psychopharmacology: A Generation of Progress.</u> Lipton, M. and DiMascio, A. and Killam, K.E. (eds.), pp. 595-608. New York: Raven Press, 1978.	21	P
Woods, J.H. and Carney, J. Narcotic tolerance and operant behavior. In: <u>Behavioral tolerance: Implications for research and treatment of substance abuse.</u> NIDA Research Monograph. Krasnegor, N.A. (Mod.), pp. 54-66. Washington, D.C.: U.S. Govt. Printing Office, 1978.	21	NA
Woods, J.H., Fly, C.L. and Swain, H.H. Behavioral actions of some n-furyl benzomorphans and ketazocines in rhesus monkeys and mice. In: <u>Characteristics and Functions of Opioids.</u> <u>Developments in Neuroscience.</u> Vol. 4. VanRee, J.M and Terenius, L. (eds.). Amsterdam:Elsevier, in press.	21	IP
Woods, J.H., Herling, S., and Winger, G.D. Chlorpromazine- and haloperidol-induced changes in some behavioral effects of cocaine and amphetamine. In: <u>Proceedings of the Xth Congress of the Collegium International Neuro-Psychopharmacologicum.</u> Deniker, P., Raduoco-Thomas, C. and Villeneuve, A. (eds.), pp. 1485-1502. Oxford: Pergamon Press, 1978.	21	P
Woods, J.H., Smith, C.B., Medzihradsky, F., and Swain, H.H. Preclinical testing of new analgesic drugs. In: <u>Mechanisms of Pain and Analgesic Compounds.</u> (Proceedings of the Eleventh Miles International Symposium). Beers, R.F., Jr. and Basset, E.G. (eds.). New York:Raven Press, (in press).	21	IP
Woolverton, W.L. and Balster, R.L. Tolerance to the behavioral effects of phencyclidine: The importance of behavioral and pharmacological variables. <u>Psychopharmacology</u> , in press.	22	IP

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Woolverton, W.L. and Schuster, C.R. The effects of daily cocaine administration on cocaine-induced mortality. Res. Comm. Psychol. Psychiat. Behav. <u>3</u> :257-265, 1978.	22	P
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Deneau, G., Yanagita, T. and Seevers, M.H. Self-administration of psychoactive substances by the monkey: A measure of psychological dependence. *Psychopharmacologia*, 16:30-48, 1969.

Schuster, C.R. and Johanson, C.E. Behavioral analysis of opiate dependence. In: *Opiate addiction: Origins and treatment*. Fisher, S. and Friedman, A.M. (eds.), pp. 77-92. Washington:Winston and Sons, 1973.

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INTERNATIONAL STUDY GROUP INVESTIGATING DRUGS AS REINFORCERS
ANNUAL MEETING

Date: Sunday, June 3, 1979

Place: Holiday Inn - Center City
1800 Market Street
Philadelphia, Pennsylvania 19103

- 8:45 - 9:00 Registration
- 9:00 - 9:30 EFFECTS OF FEEDING CONDITIONS ON DRUG-REINFORCED BEHAVIOR.
Marilyn E. Carroll, Charles P. France and Richard A. Meisch, Department of Psychiatry, University of Minnesota, Minneapolis, Minnesota
- 9:30 - 10:00 COMPARISON OF MACACA NEMESTRINA AND MACACA MULATTA IN NARCOTIC SELF-INJECTION PROCEDURES.
Alice M. Young and James H. Woods, Department of Pharmacology, University of Michigan, Ann Arbor, Michigan
- 10:00 - 10:30 INTRAVENOUS SELF-ADMINISTRATION OF CYCLAZOCINE IN RHESUS MONKEYS.
Tomoji Yanagita, Preclinical Research Laboratories, Central Institute for Experimental Animals, Kawasaki, Japan
- 10:30 - 11:00 Coffee
- 11:00 - 11:30 ANTAGONIST EFFECTS ON MORPHINE AND HEROIN SELF-ADMINISTRATION IN RHESUS MONKEYS.
David A. Downs and Stephen E. Harrigan, Pharmaceutical Research Division, Warner-Lambert/Parke Davis, Ann Arbor, Michigan
- 11:30 - 12:00 BUPRENORPHINE: EFFECTS ON HEROIN SELF-ADMINISTRATION IN ADDICTS.
Nancy K. Mello, Jack H. Mendelson, John C. Kuehnle and Margaret L. Sellers, Department of Psychiatry, Harvard Medical School, McLean Hospital, Belmont, Massachusetts
- 12:00 - 1:30 Lunch

- 1:30 - 2:00 INTRAVENOUS NICOTINE SELF-ADMINISTRATION IN
RHESUS MONKEYS.
John Dougherty and Dianne B. Miller, Department of
Psychiatry, Veterans Administration Hospital,
Lexington, Kentucky
- 2:00 - 2:30 HUMAN CIGARETTE SMOKING: EFFECT OF DOSE MANIPULATIONS
ON PATTERN OF SELF-ADMINISTRATION.
Jack E. Henningfield and Roland R. Griffiths,
Department of Psychiatry, The Johns Hopkins University
School of Medicine, Baltimore, Maryland
- 2:30 - 3:00 Coffee
- 3:00 - 3:30 RELATIVE REINFORCING EFFICACY OF COCAINE AND PROCAINE
IN RHESUS MONKEYS: SUBSTITUTION vs. CHOICE PROCEDURES.
Chris E. Johanson and Tom G. Aigner, Department of
Psychiatry, University of Chicago School of Medicine,
Chicago, Illinois
- 3:30 - 4:00 COMPARISON OF SECOND-ORDER SCHEDULES OF COCAINE
INJECTION AND FOOD PRESENTATION IN SQUIRREL MONKEYS:
EFFECTS OF d-AMPHETAMINE AND PROMAZINE PRETREATMENT.
Jonathan Katz, Laboratory of Psychobiology, Harvard
Medical School, Boston, Massachusetts
- 4:00 - 5:00 Business Meeting

Please register for the ISGIDAR meeting as soon as possible by sending the enclosed form with \$15.00 (payable to ISGIDAR) to:

Roland R. Griffiths
Psychiatry, 623 Traylor
The Johns Hopkins University School of Medicine
Baltimore, Maryland 21205.

Your prompt attention will be greatly appreciated. Registration fees will be used to cover ISGIDAR expenses during the upcoming year.

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ISGIDAR Registration - 1979

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