

# PSYCHOPHARMACOLOGY NEWSLETTER AND SUBSTANCE ABUSE

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Division 28 - The American Psychological Association

Spring, 1993

## PRESIDENT'S LETTER

*Maxine Stitzer*

President, Division 28

Division 28 has sustained a steady membership level of about 1,000 individuals over the years from 1970 to 1990. This has allowed us to participate effectively in the information exchange and advocacy programs of APA. The total APA membership is growing, however, and we need to keep up with the times. As a current member, you know about the numerous benefits of membership, including this quarterly newsletter that keeps you updated on Division activities. We are asking for your help in attracting new members.

### Who should join?

Membership in APA Division 28 is appropriate and strongly encouraged for psychologists with any of the following broad interests: 1) effects of drugs or toxins on behavior (humans or infrahuman species), 2) use of therapeutic medications to treat mental health disorders, 3) scientific understanding of substance abuse and dependence, or 4) treatment of patients with substance abuse disorders. Graduate and post-doctoral students can join as student affiliates. A special invitation is also extended to our colleagues in the new Division on Addiction (50). We think you will find concurrent membership in Division 28 to be a valuable complement to the activities of your new division.

### Benefits of membership

**Annual convention.** Perhaps the biggest benefit of membership is the chance to participate in the annual APA convention, which provides an excellent forum for psychopharmacology, behavioral pharmacology and substance abuse research. Division 28 members participate in symposia, paper and poster sessions, special lecture series organized around science themes, Science/Practice forums, Masters' Lectures series, and continuing education. In addition to interchange with other psychopharmacology and substance abuse researchers, the APA convention attracts a diverse

group of psychologists and affords the opportunity to learn about recent developments in many allied areas, including experimental analysis of behavior, mental retardation, aging, and health psychology. Finally, the annual convention is an important forum for science/practice interchange in the mental health and substance abuse treatment arenas.

**Science advocacy** is another major reason to belong to APA Division 28. The APA Science and Public Policy directorates work together to keep legislators aware of current issues and the importance of scientific input to public policy questions. Our members have been active in formulating policies for adequate care of research animals and in promoting public awareness of the utility and benefits of animal research. Neurobehavioral toxicology is a strong interest of some Division members who have participated in formulation of federal guidelines for control of toxic substances. More recently, our members have been involved in formulating recommendations for the operation of the APA Office on Substance Abuse and in working on APA guidelines for improved psychopharmacology training for psychologists. Advocacy efforts are critical for keeping both the science and practice sides of psychology strong and healthy.

*cont. on p. D-12*

## \*\*\*\*DIVISION 28 MEMBERSHIP DRIVE\*\*\*\*

*Warren K. Bickel*

Membership Chair, Div 28

Division 28 is currently sponsoring a membership drive. Keeping Division 28's voice in the APA is particularly important now, given the current interest in the issue of psychologists prescribing drugs, the continuing concerns about drug abuse and about funding for drug abuse research and treatment, and issues surrounding the behavioral consequences of chemical toxins in the environment. Thus, in order to ensure that our Division's interests are represented, it is essential that each member act now. Please use the application form on p. 7 to recruit at least one new member to our division. All recruits must be or become members of APA.

## PROFILES OF CANDIDATES FOR DIVISION 28 OFFICE

In mid-May, you will receive a ballot asking you to vote for two Division 28 officers, President-Elect and Member-at-Large. The winners of these elections will take office in August, 1993. The President-Elect will then serve as President in 1994-95 and as Past-President in 1995-96. The Members-at-Large, whose job is to represent the general membership at Executive Committee meetings, serve for three-year terms. Profiles of the candidates are presented below; each was invited to contribute a brief "platform."

### President-Elect

**JOHN GRABOWSKI.** Education: Ph.D. in Psychology (1970); NIMH post-doc in Psychopharmacology (1970-72), University of Minnesota. Research Interests: Determinants of drug seeking/taking, dependencies, and abuse, in Research Treatment Clinic (e.g. joint action medications and behavioral interventions; cocaine, opiates, nicotine; special populations-HIV, pregnant women); Human Laboratory (e.g. methadone self-administration) and Animal Laboratory (e.g. methadone self-administration); policy studies. Current Position: Professor, Department of Psychiatry and Behavioral Sciences, University of Texas Health Science Center; Director, Substance Abuse Research Center. Memberships: APA (Fellow, Division 28 and 25; Member 33), College on Problems of Drug Dependence; Association for Advancement of Behavior Therapy; Society for Behavioral Medicine; Behavioral Pharmacology Society; AAAS; APHA. Service Positions: NIDA, Clin. Behav. IRG, member, 1991-present; NIDA Contract and SRC reviews; APA Task Force on Drug Abuse, Chair, 1986; APA Working Group on Drug Abuse, Chair, 1991-92, APA Division 28 Executive Committee member-at-large, '85-'88; APA Division 28 Executive-28 Executive Committee, Council Representative, '89-'91; Editorial Reviewer, several journals; Collaborated with APA Publications Office to develop new APA Journal. Platform: Issues/Goals, Mechanisms: 1) Communication and collaboration across Division membership; maintain breadth on the Executive Committee, neuroscience through treatment research and clinical; via appointments to Executive Committee: 2) Collaboration with APA Directorates and Divisions on member-driven issues via appointments for Directorate/Division contact and action; also provide statements to, meet with, Directorates on areas requiring APA action on behalf of membership (e.g. animal care, prescription privileges, human subjects, funding, and importance of data-based statements, neuroscience through treatment; pre/post doctoral training): 3) Formal Division liaison with pertinent health agency staff (e.g. NIDA); provide recommendations regarding directions: 4) Develop a series of brief

issue/policy papers, "Psychopharmacology and Substance Abuse Issues: Discussions/Statements" on important topics, prepared by Division members for distribution to APA, other organizations, departments. This will formalize for distribution opinions/issues considered by Exec. Comm.: 5) Support supplement issue of the new APA journal containing abstracts from Division Annual Meeting posters/presentations: 6) Emphasize Division strengths and its role in APA on behalf of scientists in psychopharmacology and substance abuse, to actively recruit new members and sustain Division membership and status.

**M. MARLYNE KILBEY.** Education: Ph.D. in psychology, Univ. of Houston, 1969. Research Interests: pre-clinical and clinical psychopharmacology; currently working on nicotine dependence and cocaine dependence as they relate to affective disorders; has begun to look at perception of drug effects as a factor in nicotine dependence and cocaine dependence, and associated affective disorders. Current Position: Professor of Psychology, Wayne State University, Detroit, MI Memberships: APA (Fellow, Division 28 and 35), Sigma Xi, AAAS, Society for Neuroscience, College on Problems of Drug Dependence, AAUP, AAUW, Behavioral Pharmacology Society, Southeastern Psychological Association. Service Positions: NIDA, Member, Extramural Science Advisory Board, 1990-94, Science Advisor, 1989; APA; Member, Committee on Academic Freedom and Conditions of Employment 1976-81, Chairperson, 1979; member-Finance Committee, 1982-88; Member, Accreditation Committee, 1988-1992, Chairperson, 1990-91; Member, Planning Committee for the *Journal of Experimental and Clinical Psychopharmacology*; Member, Investment Committee, 1992-95; Member of Psychopharmacology Task Force, 1991-92; Member, Planning Committee for 1993 Conference on Postdoctoral Education and Training; Division 28; Council Representative, 1981-84; Executive Committee, 1981-92, Curriculum Committee, Chair 1988-92; Member, Continuing Education Committee, 1993. Ad hoc reviewer for NIDA, NIMH, and VA. Reviewer, *Life Science; Communications in Psychopharmacology; Pharmacology, Biochemistry and Behavior; American Psychologist*; Advisory Editor, *Contemporary Psychology*, 1991-present. Platform: Continued development is the keyword. We need 1) a vision of where we want psychopharmacology to be in 2025 and to develop a strategy for how Division 28 can assist it to come about; 2) continued advocacy for responsible research evaluating drug effects in non-humans and humans; 3) support in research; 4) action on issues of funding for research in psychopharmacology and substance abuse; 5) to establish Division 28 as a major provider of continuing education in psychopharmacology and substance abuse; 6) continued liaison with other science and drug abuse service constituencies both inside and outside APA.

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## APA COUNCIL MEETING, WINTER, 1993

Steven C. Fowler  
Council Representative

At this winter's Council of Representatives meeting (February 25-28, 1993, Washington, D.C.), deliberative activities began the evening of February 25 with a plenary session followed by caucus meetings. In the plenary session, candidates for President-elect (Robert Resnick, Dorothy Cantor, Lewis Lipsitt, Dr. Lowery for Joseph Kobos, and Elizabeth Robinson) each gave 3- to 5-minute campaign statements. In the subsequent meeting of the Coalition for Scientific, Academic, and Applied Psychologists, of which Division 28 is now a member, candidates were discussed and ranked, with Lewis Lipsitt and Robert Resnick receiving the highest rankings. Having heard the candidate's statements and having read their campaign literature, and knowing the general wishes of the Division 28 Executive Committee, I recommend that you cast your first-choice vote for Robert Resnick and your second-choice vote for Lew Lipsitt. The ballots will be mailed to the entire APA membership the week of May 7, 1993.

Several resolutions of interest to the Division 28 membership were adopted, as summarized:

- \* The Division on Addictions was approved on a trial basis in accord with the bylaws on Divisions. Dr. Freudenberger of Division 42 (Psychologist in Independent Practice; over 9000 members) spoke at length in support of the Division's creation, and excerpts of Maxine Stitzer's letter expressing no objections from our division were read to Council.
- \* The revised "Guidelines for Ethical Conduct in the Care and Use of Animals" was adopted with little debate. Division 28's Larry Byrd and Hugh Evans and other members of CARE should be thanked for their work in successfully rewriting this important document.
- \* After considerable debate, Council adopted a detailed resolution concerning record-keeping requirements for psychologists providing health care services.
- \* Intense and sometimes emotional debate surrounded the passage of a resolution on the use of psychology to promote the sale of health-damaging tobacco products. The motion read: "Resolved, that the American Psychological Association considers it inappropriate and unacceptable behavior to apply the knowledge and techniques of psychology in an effort to sell lethal and addictive tobacco products, and urges our colleagues refrain from such activity." This statement

now becomes an official position of the APA.

\* Members of our Division 28, which you will recall was one of the divisions near the threshold for representation on Council in the most recent apportionment balloting, will be interested to know that a resolution was introduced to lower the vote threshold to increase the probability that smaller divisions would retain a seat on Council. Unfortunately, the issue was deferred until the August meeting. Those supporting the idea indicated that a resolution even more favorable to the smaller divisions would be presented at that time.

\* Michael Smyer, Ph.D. presented a summary of the report of the Psychopharmacology Task Force. This was offered as an information item, and no specific action was taken except for an expression of thanks for the work done by those comprising the Task Force. My reading of the comments from the floor of Council was that virtually everyone agreed that "Level 1" (all Ph.D. psychologists trained for health care careers should have some formal psychopharmacology training) training was a good idea, but "Level 3" training (sufficient to prepare adequately individuals to prescribe psychotropic medications) was frankly opposed by many members. In this context, it is interesting to note that the California Psychological Association is actively pursuing prescription privileges in some form for practitioners, even in the face of no official policy from APA on this issue. Some of the eagerness to push this issue now is a response to the Clinton Administration's expressed intent to bring about meaningful health care reform within the next few years. I intend to discuss with Division 28's Executive Committee the possibility of introducing to Council in August, 1993 a resolution supporting "Level 1" training in APA-approved clinical programs.

\* A committee will be created to conduct a scientific review of evidence related to the question of the veracity of memories of childhood abuse.

\* It was announced at the Council meeting that Bryant Welch, Ph.D., J.D., formerly executive officer of the APA Practice Directorate, was appointed to head APA's Federal advocacy effort for psychologists in the health care reform initiatives being developed by Hillary Rodham Clinton.

\* The Board of Educational affairs will convene a task force to "plan for the technological needs of educators of psychology for the 21st century."

As usual, it was a lively meeting, replete with eloquent speakers whose oratory entertained Council Members even when it did not enlighten them!

## ISSUES IN ANIMAL RESEARCH: RESTRICTED ACCESS TO WATER

*Hugh L. Evans*

Chair, Committee on Animals in Research

Members may have noticed an increase in comments concerning the use of restricted access to water as a method for preparing animals for behavioral research. Some of this intensified interest stems from the publication of a purported "case study" in which an Institutional Animal Care and Use Committee (IACUC) rejected a Principal Investigator's research protocol to study visual discrimination in monkeys maintained by water reinforcement (Orlans, 1991). Orlans, a Research Associate in the Kennedy Institute of Ethics at Georgetown University, later admitted that her article is not a case study but a "composite" of several experiences (Orlans, 1992), and was criticized for this by the journal's editors and readers (ILAR, 1992; Desimone et al., 1992). The article illustrates several things that may cause the relationship between the P.I. and IACUC to flounder. These issues are outlined below.

**Basing legal decisions upon opinion rather than solid data.** IACUCs appear ready to accept the Orlans (1991) publication as definitive, although it is an opinion piece lacking sufficient review of the literature to justify scientific conclusions. Although each research proposal must now show that a literature search has found the proposed work to be non-duplicative, the ideas of Orlans were not substantiated by a literature search. It seems only fair that both critics and advocates of research be held to the same high standards of logic and proof to justify their conclusions.

**There is insufficient literature and insufficient searching of the literature.** Although there is a substantial and growing literature to indicate health benefits of restricted access to food (Fishbein, 1991; Kubo et al., 1992; Laties, 1987; Rodriguez et al., 1992) and even of forced exercise (Nasrullah and Mazzeo, 1992), there seems to be less of a literature upon which to base solid decisions concerning the effects of restricted access to water. Even scientists tend to overestimate the animal's need for fluid because of their personal experiences in a society where humans ingest great volumes of fluids for social reasons, rather than for physiological fluid need. Orlans overlooked earlier reviews of controlled access to water with animals (Ator, 1991; Evans, 1990; Kissileff, 1973; Rolls & Rolls, 1982). She asserts that a variety of alternative motivational procedures could have been used to motivate monkeys to perform visual discrimination, but not a single reference was provided to guide the reader to published, exemplary research.

**It is important to recognize the fact that animal behavior**

**is highly adaptive.** Division 28 members know how adaptive behavior can be; it is a primary mechanism of coping with changes in the environment, including "evolutionary stress." Several publications document the adaptable nature of drinking (Rolls & Rolls, 1982). Monkeys can drink 25% of their daily water needs in 15 min. (Wood et al., 1982) and rats similarly learn to drink large volumes in brief periods (Dufort & Abrahamson, 1966; MacPhail & Seiden, 1976). None was cited by Orlans (1991; 1992).

**The burden was on the investigator to rebut a wide variety of assertions.** The IACUC rejected as unsubstantiated the P.I.'s request for continued use of the protocol to ensure continuity with the previous stages of on-going research. Orlans (1991) suggests that the burden is on the P.I. to demonstrate, either through citations of a barely existent literature or through his own methodological research, that alternative motivational procedures would, in fact, create an unsatisfactory change in the experimental model. Unfortunately, the IACUC concluded that the restricted watering subjected the monkeys to "unjustified mental suffering," without providing any measure of suffering. The burden was on the P.I. to prove the absence of mental suffering. The P.I. was also asked to answer whether "daily dehydration would affect the monkey's vision and, therefore, the researcher's results." Unfortunately, this question leads to a logical cul-de-sac, since any alternative method (behavioral, physiological, cellular) can be expected to cause some measurable change in one physiological parameter or another. It seems of little interest to the IACUC that an unanesthetized, freely behaving animal can be justified as the least intrusive of the alternative techniques. Orlans suggests that the P.I. provide extensive documentation of good health—e.g., daily water intake, urine volume and specific gravity, and sequential multiple analysis of blood.

**The IACUC's logic was not applied consistently to all aspects of this issue.** Inconsistent application of logic often hinders debate within an IACUC, and the inconsistencies are compounded when one compares the deliberations of different IACUCs. The IACUC found that dispensing water as response-contingent rewards caused monkeys to "suffer severe distress from long periods of water deprivation followed by drop-by-drop water administration." Orlans failed to indicate how this method of water presentation differed from the "foraging" recommended by many veterinarians and animal sympathizers who believe that bite-for-bite food administration—i.e., forcing monkeys to search and work for hidden pieces of food rather than be given an entire portion at one feeding (e.g., Snowden, 1991)—is beneficial. Instead, this IACUC considered food restriction an unacceptable experimental method because it is "a type of punishment." A reasoned examination is provided by Laties (1987).

*cont. on p. 5*

# DIVISION 28 DIRECTORY

Spring, 1993

The Division 28 Directory of telephone and FAX numbers, as well as electronic mail addresses, begins on the next page. Please submit corrections to the Division 28 Membership Chair, Warren K. Bickel, Ph.D., Human Behavioral Pharmacology Laboratory, Department of Psychiatry, University of Vermont, 38 Fletcher Place, Burlington, VT 05401-1198; (802) 660-3060. Please let us know whether you find this service useful and how it might better serve your needs in the future.

## CONVENTION, 1993, TORONTO, CANADA

*Harriet de Wit*

Program Chair, Division 28

This year Division 28 will again offer a full and varied program of invited speakers, symposia, workshops, papers, and posters at the Annual Convention, Aug. 20-23. Thanks to all of you who submitted programs, helped to review, suggested speakers, and accepted invitations to participate!

The Division will sponsor two highly informative Continuing Education workshops, entitled "Benzodiazepines: Pharmacology, Efficacy and Interaction with Behavior Therapy for Panic Control" and "Cigarette Smoking: Practical Cessation Treatment Strategies." Our regular program will include four exciting symposia, ranging from topics in developmental and clinical psychopharmacology to drug policy. In addition, Division 28 will co-sponsor, with Division 12 (Clinical Psychology) and with the CARE committee, three symposia on i) the APA Task Force on prescribing privileges for psychologists, ii) the structure and function of SAMSHA, and iii) the use of animals in research and teaching.

We also have an outstanding roster of invited speakers: Four New Fellows of the Division will speak about their research: Steve Higgins, Jed Rose, Eliot Gardner, and Jim Sorenson. The 1993 winner of the Solvay-Duphar Award for Outstanding Basic Psychopharmacological Research in Affective Disorders is Klaus Miczek, of the Department of Psychology at Tufts University. He will speak on the topic "Aggression and Affective Disorders: Common and Separate Mechanisms." The winner of the Young Psychopharmacologist Award is Steve Negus, of the University of Michigan. He will speak on "Behavioral Pharmacology of Opioids in Rhesus Monkeys: Drug Effects on Schedule-Controlled Behavior." Other invited speakers include Robin Room of the Addictive Research Foundation in Toronto, Roy

Pickens of the addiction Research Center in Baltimore, and Mark Kleiman of the John F. Kennedy School of Government, Harvard University.

Last, but certainly not least, are the many posters and papers submitted by members, which promise to stimulate much interest and discussion.

Toronto is an attractive and culturally rich city, with lots of wonderful ethnic restaurants. The weather in August is likely to be pleasant.

### PRECONVENTION SATELLITE SYMPOSIUM

*Maxine Stitzer*

President, Division 28

On Thursday, August 19, 1993, there will be a pre-convention symposium in Toronto on Relapse in addictive behaviors: Basic research and clinical applications, co-sponsored by Division 28 (Psychopharmacology and Substance Abuse) and Division 50 (Addictions). Speakers will include Marilyn E. Carroll, University of Minnesota (Animal models of acquisition, maintenance and relapse to drug use); Harriet deWit, University of Chicago (Factors influencing drug choice in a human relapse model); Helen M. Annis, Addiction Research Foundation (Assessment and treatment planning for relapse prevention); Rudy E. Vuchnich, Auburn University (Behavioral theories of choice: Application to alcohol relapse); Peter M. Monti, Brown University (Cue exposure and alcohol treatment); and Stephen T. Higgins, University of Vermont (Treatment of cocaine dependence with a Community Reinforcement Approach). Make your travel plans so that you can attend this informative science/practice symposium!

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## CANDIDATE PROFILES (cont.)

### Member-At-Large

**HERMAN H. (HANK) SAMSON:** Education: Ph.D. in Biopsychology, University of Waterloo, Canada, 1968. **Research Interests:** Behavioral pharmacology of alcohol, animal models of alcohol self-administration, CNS mechanisms of alcohol reinforcement. **Current Position:** Professor of Physiology and Pharmacology, Professor of Comparative Medicine and Director of the Division of Substance Abuse Research at the Comparative Medicine Clinical Research Center; Bowman Gray School of Medicine, Wake Forest University, Winston-Salem NC. **Memberships:** Behavioral Pharmacology Society, Research Society on Alcoholism, International Society for Biomedical Research in Alcoholism, Behavioral Toxicology Society, Society of Psychologists in Addictive Behaviors, Society for Neurosciences, Association for Behavioral Analysis, New York Academy of Sciences, American Society for Pharmacology and Therapeutics. **Service Positions:** Serve on the Editorial Boards of: Drug and Alcohol Dependence, Alcoholism: Clinical Experimental Research, Alcohol, Pharmacology, Biochemistry and Behavior. Was regular member of the NIAAA Neuroscience and Behavior IRG from 1985-1990. Chaired NIAAA Center grant review, 1992. Numerous special review groups for both NIDA and NIAAA. Grant reviews for both NSF, VA, and Canadian grants. Review for approximately 15 journals each year. **Platform:** As Member-At-Large, I will help to bridge the existing gaps between the alcohol and drug fields, providing direction towards a better integration of the two research areas concerning the problems of addiction.

**JAMES L. SORENSEN.** Education: Ph.D. in Clinical Psychology, University of Rochester, 1975. **Research Interests:** Treatment research in substance abuse and community psychology, prevention and treatment of AIDS among drug abusers. **Current Position:** Chief, Substance Abuse Services, University of California, San Francisco at San Francisco General Hospital; Adjunct Professor, Department of Psychiatry, UCSF. **Memberships:** APA, AAAS, APA Task Force on Drug Abuse Policy (1986), APHA, International AIDS Society, Society of Psychologists in Addictive Behaviors. **Service Positions:** Panel of Experts, Methadone Framework Project, UCLA Drug Abuse Research Group, 1991-1992; University-wide Task Force on AIDS, 1989-present; Advisory Group on Methadone Treatment Quality Assurance System, Research Triangle Institute, 1990-present; Reviewer, Social & Behavioral Science Track, VII International Conference on AIDS, 1990-1991; Social Sciences & Public Policy Planning Committee, VI International Conference on AIDS, 1989-1990; Scientific Advisory

Committee, American Foundation for AIDS Research, 1989-present; Technical Panel on Research & Intervention Strategies, Committee on AIDS Research in the Behavioral, Social, & Statistical Science, National Research Council, 1989; Congressional Briefing on drug abuse research, APA 1988; Editorial boards of *Journal of Community Psychology*, 1990-present, and *Psychology of Addictive Behaviors*, 1992. **Platform:** How will we get along with the newly-formed Division 50 on the Psychology of Addictive Behaviors? How will Division 28 and Division 50 collaborate? Division 28 must take the initiative in promoting increased training about substance abuse and psychopharmacology in undergraduate, graduate, and postgraduate psychology training programs. We must also place greater emphasis on attracting new members into this division, especially those involved in clinical research.

### PRESIDENT'S LETTER (cont.)

Social interaction opportunity is a final membership advantage that should not be overlooked. Division 28 operates a nightly hospitality suite in its headquarters hotel at the annual meeting where all members are welcome. Here, members can gather to talk informally, relax, and organize dinner parties. The importance of having a home-base in a meeting of over 10,000 attendees cannot be overemphasized.

Do your part in this important membership drive. We need more members to keep up with the overall growth of APA. Division 28 membership has remained steady over the years, while the total APA membership grows around us. An increased membership will ensure that our division remains strong and active within the parent organization.

Please pass this newsletter along to a nonmember colleague along with an enthusiastic invitation to join! If each member recruits one new member, our rolls will double!

### NEWSLETTER EDITOR SOUGHT

The editorship of the *Psychopharmacology and Substance Abuse Newsletter*, the official organ of Division 28, is currently open. To apply, or to request further information, get in touch with the current editor, Cindy Pomerleau (tel: 313-998-6430; e-mail: [usergcds@umichum.bitnet](mailto:usergcds@umichum.bitnet)); or Maxine Stitzer, President of Division 28 (tel: 410-550-0042; e-mail: [mstitzer@bpru.uucp.jhu.edu](mailto:mstitzer@bpru.uucp.jhu.edu)). This is a great way to become acquainted with the people and the issues that are the driving force for Division 28.

## ANIMAL ISSUES (cont.)

**Policy and philosophy.** This debate hinges upon assertions (e.g., "mental stress") that have no agreed-upon measures in animals but are strongly held by some as a matter of belief. This reminds me of the debate over abortion: Some people make philosophical or religious objections to a practice that is acceptable to others. In a democracy, no one should be forced to engage in animal research against his/her will, but people of one religious persuasion should not use society's institutions and legal and financial penalties to restrict the freedom of non-believers.

Orlans (1991) asserts that the P.I.'s need for a test session of over an hour was a "convenience to himself...and not of benefit to the animal." There are very few instances when an animal's participation in laboratory research can be seen as of benefit to the animal; thus, one might assume that all lab studies will fall short on this index. To interpret the P.I.'s need for enough data to answer the research question as a "convenience" rather than a necessity creates an additional philosophical dilemma; if the P.I. stops short, with scanty and fragmented data, the project may be dismissed as pointless and fruitless. If the P.I. persists until sufficient data have been gathered, the project can be criticized as excessive and unjustified. What type of research, exactly, could escape criticism on one or the other grounds?

**Please contribute information.** An NIH-sponsored workshop in June and a symposium on August 21 at the APA convention will examine issues in behavioral research methods with animals. I will help to collect information on improving relationships between P.I.s and IACUCs and on the issue of restricted access to water. Please send information to me at New York University Medical Center, Dept. of Environmental Medicine, NY, NY 10016.

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### IN BRIEF:

Kenneth A. Perkins  
Public Information

*The goal of the "In Brief" column is to provide concise descriptions of selected recent human and animal studies exploring topics potentially of common interest to Division 28 members. This column describes a recent animal study examining the influence of the behavioral context of drug exposure on the resulting "drug effects."*

A concept basic to behavioral pharmacology is that mere exposure to a psychoactive drug is not sufficient to explain its effects; the behavioral context of the drug exposure can have a very significant influence upon these effects. An example  
*cont. on p. 6*

## OPEN POSITIONS

**Postdoctoral Fellowships in Behavioral Research on Psychosocial Oncology:** Areas of interest include: 1) psychoneuroimmunology; 2) aversion reactions in chemotherapy patients; 3) psychosocial factors in adjustment to cancer treatment; 4) parent-child interaction and treatment cooperation in pediatric oncology; 5) psychological factors in colorectal cancer; 6) assessment of quality of life and social support among underserved patient populations; 7) smoking cessation among head and neck cancer patients. Two-year fellowships begin on or before 7/1/93. Salary commensurate with experience. Write to Paul B. Jacobsen, Ph.D., Memorial Sloan-Kettering Cancer Center, Box 541, 1275 York Avenue, New York, NY 10021. MSKCC is an equal opportunity employer, M/F/H/V.

**Doctoral Position at National Center for Toxicological Research:** Duties include using operant behavioral techniques to study aspects of brain function (i.e. learning, short-term memory and attention, motivation, time estimation, etc.) in non-human primates (rhesus monkeys) and rodents. Familiarity with, and a primary interest in, operant analyses of behavior is essential. Minimum salary is \$33,000. Contact Dr. Merle G. Paule, (501) 543-7147/7203, E-MAIL mpaule@ntbncr.fda.gov, for further information.

**Postdoctoral Training in Neuropsychopharmacology for Drug Abuse Research, Dept. of Pharmacological and Physiological Sciences.** Didactic training in general neurobiology, physiology, pharmacology and behavioral principles. Research programs include developmental neurobiology of early drug exposure, neurotoxicity of psychostimulants, neural mechanisms of pain and analgesia, behavioral studies of the reinforcing, discriminative stimulus, and subjective effects of drugs in laboratory animals and in humans. Minorities are encouraged to apply. For more information write to H. de Wit, Dept. of Psychiatry, The University of Chicago, 5841 S. Maryland Avenue, Chicago, IL 60637. EOAAE.

**NIDA-sponsored Postdoctoral Fellowships** Applicants' interests should lie broadly in behavioral pharmacology and toxicology. Current focus of research is the effects of prenatal cocaine exposure through the lifespan, with a special emphasis on advanced age. The Department, through its Environmental Health Sciences Center (NIEHS), its Center for Space Environmental Health (NASA), and its program in Occupational Medicine, offers a broad scope of possibilities in addition to the cocaine project. Send information to Dr. Bernard Weiss, Department of Environmental Medicine, University of Rochester Medical Center, Rochester, NY 14642, Phone: (716) 275-1736, FAX: (716) 256-2591, INet: weiss@envmed.rochester.edu.

**Research Position in Behavioral Toxicology.** Work with multidisciplinary team including epidemiologist, molecular biologist. Opportunity to lead in developing a new generation of computerized tests of human motor and cognitive performance related to exposure to metals. Follow-up studies with animal models of similar neurobehavioral functions. Available immediately. Call Dr. Hugh Evans, Phone: (914) 351-4229; FAX: (914) 351-4510.

**Postdoctoral Research Fellowship in Behavioral Medicine.** 1-2 year postdoctoral research fellowship in human psychopharmacology/substance abuse, with focus on nicotine; available 11/1/93. Collaborate on laboratory-

based projects examining individual differences in sensitivity to nicotine and gender differences in smoking. Ph.D. (in hand or expected shortly) in experimental psychology, pharmacology, or other relevant discipline. Salary competitive. Send letter of interest, CV, 3 letters of recommendation to Dr. Cynthia S. Pomerleau, Behavioral Medicine Laboratory, U of MI Dept. of Psychiatry, 475 Market Place, Ste. L, Ann Arbor, MI 48108.

## IN BRIEF (cont.)

is the important observation that a history of self-administration of a drug can produce effects that are quite different from those resulting from identical but non-contingent exposure to the drug.

Differential drug effects via self-administration vs. non-contingent administration were recently demonstrated in a NIDA-funded study by Nancy Ator and Roland Griffiths of Johns Hopkins University (*Psychopharmacology*, 1993, 110, 1-4). Two adult male baboons were initially trained to discriminate 0.32 mg/kg midazolam i.v. (benzodiazepine used as a pre-anesthetic medication) from the no-drug (or saline) condition, and the generalization gradient across midazolam doses was determined under test conditions (i.e. degree of responding on midazolam vs. on the "no-drug" lever). Then various doses of midazolam were made available for self-administration over a period of several months, followed by another test of the midazolam generalization gradient. For both animals, this gradient was shifted to the *left* after the period of midazolam self-administration, indicating sensitization to the discriminative stimulus effects of midazolam. After reinstatement of the initial discrimination training conditions in the absence of opportunity to self-administer drug, the generalization gradient was again determined and found to be virtually identical to that established during the initial period of discrimination training, showing a return to "baseline" conditions. Subsequently, each animal was non-contingently administered midazolam in the precise pattern in which it had previously self-administered the drug. This was accomplished by recording the timing of injections during the self-administration period and programming the drug presentation apparatus to inject midazolam at those same times. The drug injection lever was omitted during this period; thus, drug delivery was not contingent on the animals' responding. Importantly, the midazolam generalization gradient following this period was shifted to the *right*, indicating decreased sensitivity, or tolerance, to its stimulus effects.

In sum, identical exposure to midazolam had opposite effects on sensitivity to the drug's stimulus effects depending on whether this exposure occurred via self-administration (increased sensitivity) or non-contingently (decreased sensitivity). Thus, the behavioral context of the drug exposure was vital in determining the resulting "drug effects."

MEMBERSHIP APPLICATION FOR  
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Thank you for your interest in APA Division 28: Psychopharmacology and Substance Abuse.

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