Beckwith and Thomas V. Petros. University of North Dakota, Grand Forks, ND.

This study examined gender differences in the effects of acute ethanol intoxication and prose processing. Subjects were administered ethanol (0.0 or 1.0 ml/kg body weight) and read expository prose passages. Intoxicated subjects encoded prose slower and recalled less information than sober subjects. Males spent more time encoding text than females: females taking oral contraceptives (OC's) read longer than females not taking OC's. Intoxicated males recalled more than intoxicated females, although no difference was observed when sober. This suggests that ethanol impairs prose processing efficiency even when subjects encoded the material at their own rate. Possible explanations for the gender differences included neuroendocrine and cognitive factors.

EFFECTS OF DOSE ON THE REINFORCING EFFECTS OF CAFFEINE. William Hunt. Claremont McKenna College, Claremont, CA; John R. Hughes, Warren K. Bickel, Stephen T. Higgins and Sara L. Pepper. University of Vermont, Burlington, VT.

Thirteen moderate coffee drinkers (3–7 cups per day) were tested to see if caffeine at 25, 50, 100, 150, 200 mg could function as a reinforcer when ingested in coffee by them. Caffeine at 100 mg functioned as a reinforcer in 7 of the subjects. Among the subjects who received additional dose tests of caffeine, in 2 subjects 25 mg of caffeine functioned as a reinforcer, in 5 subjects 50 mg functioned as a reinforcer and in 3 subjects 150 mg functioned as a reinforcer. The two hundred mg dose did not function as a reinforcer in any subjects. These results replicate earlier findings with the 100 mg dose, and are the first to show that low doses, 25 and 50 mg can serve as reinforcers.

PARENTAL INTOXICATION AND USE OF PHYSICAL CONTACT WITH PROBLEM CHILDREN. Alan R. Lang and William R. Meadows. Florida State University, Tallahassee, FL; William E. Pelham. Western Psychiatric Institute and Clinic, Pittsburgh, PA.

Effects of alcohol intoxication on physical contact in management of boys exhibiting behavior problems were examined using 96 parents, including equal numbers of married fathers and married and single mothers who themselves had either only normal children or at least one child with a diagnosis of an externalizing disorder. Half the subjects from each group received an alcoholic beverage (0.95 ml ETOH/kg for males or 0.84 ml/kg for females) and half a nonalcoholic drink prior to a semi-structured interaction with a child confederate trained to portray externalizing behavior problems. Coding of videotaped interactions by raters blind to subject beverage condition revealed that intoxicated subjects used significantly more physical contact and control than did sober subjects.

SOBER HOUSING FOR RECOVERING SUBSTANCE ABUS-ERS. Dennis McCarthy. Department of Public Health, Boston, MA; Milton Argeriou. Stabilization Services Project, Boston, MA; Joseph Vallely. Department of Public Health, Boston, MA.

Alcohol- and drug-free housing is critical to the maintenance of sobriety for many recovering substance abusers. The decreased availability of low cost housing over the past decade has created a

particular hardship for individuals in recovery seeking such housing. The Massachusetts Department of Public Health in collaboration with other state and private agencies has successfully employed a variety of strategies to develop alcohol- and drug-free housing. Three strategies are reviewed and discussed.

EFFECTS OF PRENATAL AND ADULT CAFFEINE EXPOSURE ON MAZE LEARNING. Charles E. Camp and W. Keith Douglass. Armstrong State College, Savannah, GA.

The effects of prenatal and/or adult caffeine exposure on maze learning were studied in 20 Holtzman albino rats. Compared to controls, subjects that received prenatal caffeine showed increased maze times and errors during maze training with decreased times and errors during adult exposure. Prenatal subjects had lower mean body weights. During postexposure, subjects that received prenatal and adult exposure had increased times and errors over all groups. Male and female subjects that received caffeine only as adults had faster times and fewer errors during adult exposure with increased times and errors during postexposure in comparison to controls.

CHANGES IN ENERGY EXPENDITURE FOLLOWING SMOKING CESSATION: SEX DIFFERENCES. Susan E. Winters, Mathilda C. Coday, Robert C. Klesges and T. Andrew Bailey. Memphis State University, Memphis, TN.

The present study measured the effect of smoking on resting energy expenditure (REE) in 30 (15 male, 15 female) smokers over two consecutive days. On day one, REE was measured for 20 minutes after a day of regular smoking. In addition, 30 (15 male, 15 female) nonsmokers who served as controls were run under identical conditions. Preliminary analyses performed on these data suggest that there are definite metabolic effects associated with smoking and smoking cessation and that these effects are greater in females compared to males.

METHADONE-TREATED DRUG ABUSERS: REDUCED HIV INFECTION AND RISK BEHAVIOR. George E. Bigelow, Robert K. Brooner and Lawrence Greenfield. The Johns Hopkins University School of Medicine, Baltimore, MD.

The prevalence of human immunodeficiency virus (HIV) infection and the rates and patterns of drug use-related HIV risk behaviors were compared in two populations of intravenous drug users (IVDUs)—one enrolled in methadone maintenance treatment (N = 100), and one untreated and continuing drug use in the community (N = 90). Volunteers' blood samples were tested for HIV antibodies as an index of infection, and quantitative histories of their drug injection and needle sharing behaviors for each month of the preceding year were obtained by interview. HIV seropositivity was significantly less prevalent in the methadone-treated population (3% vs. 17%, p = 0.003). For each of the preceding 12 months the percentage of persons injecting drugs and the median number of injections per month were both significantly lower in the methadone-treated group than in the untreated group (p < 0.01in all cases). The median injections per month in the treated group was one-twelfth to one-fourth that of the untreated group. While these data are suggestive of a benefit from treatment such a conclusion would be speculative since the treated and untreated IVDU groups were self-selected and differed on demographic indices (minority group membership) that were themselves posi-