## TABLE OF CONTENTS

PLENARY SESSION
In Memoriam: William Robert Martin, M. D 1921-1993  C. W. Gorodetzky
In Memoriam: Daniel X. Freedman, M. D 1921 - 1993  C. R. Schuster
Any Man's Death: Presidential Address T. J. Crowley
Drug Abuse Research Accomplishments and Opportunities: A Report From the National Perspective  R. A. Millstein
Linking Research and Service Delivery: The Unique Mission of the Substance Abuse and Mental Health Services Administration  M. A. Jansen
Introduction of Nathan B. Eddy Award Recipient  L. B. Cottler
The Nathan B. Eddy Lecture: Challenging Conventional Wisdom About  Drug Abuse  L. N. Robins
SYMPOSIUM I Opioid Receptors: Molecular and Structural Studies46
Titles and Participants Summary E. Simon
Progress in the Cloning and Sequencing of the cDNA of the Delta Opioid Receptor from NG108-15 Cells  C. Evans
The Molecular Characterization of the Delta Opioid Receptor by Expression Cloning B. L. Kieffer
Recent Studies on the Structure and Reconstitution of Purified Mu Opioid Receptors  J. M. Hiller
Analysis of Delta Opioid Receptor Functions P. Y. Law and H. H. Loh
Signal Transduction Mechanisms for Opioid Receptors S. R. Childers
The Cloning of the Mu Opioid Receptor G. Uhl and L. Yu

SYMPOSIUM II Teratogenicity of the Drugs of Abuse51
Titles and Participants Summary L. P. Finnegan
Effects of Prenatal Alcohol Exposure on 14-Year-Old Children: A Population-Based Prospective Study A. Streissguth
Critical Analysis of the Teratogenic Potential of Cocaine G. Koren
Behavior in Cocaine-Exposed Infants and Children: Association Versus Causality  D. Neuspiel
Effects of In-Utero Opiate Exposure: New Paradigms for Old Questions K. Kaltenbach
SYMPOSIUM III Cannabinoid Receptors: Pharmacology, Second Messenger Systems and Endogenous Ligands
Titles and Participants Summary B. R. Martin
G-Protein Coupled Activities of Cannabinoid Receptors S. Childers
Cannabinoid Receptor Binding Activity of Neuromodulator-Like Ligands A. Howlett
Evidence for Cannabinoid Receptors in Isolated Muscle Preparations R. Pertwee
Identification of an Endogenous Cannabinoid Ligand R. Mechoulam
The Pharmacological Role of the Cannabinoid Receptor and Endogenous Ligand in Brain  B. R. Martin
SYMPOSIUM IV Innovative Approaches to Drug Abuse Treatment
Titles and Participants Summary J. Brady
Comparison of Standard and Enhanced Methadone Treatment Clinics K.Besteman

Medical Maintenance Treatment for the Socially Rehabilitated Former Heroin Addict  D. Novick
Treatment Fees and Retention on Methadone Maintenance J. Maddux
Integrating HIV Treatment into Substance Abuse Programs S. Batki
Enhancing Drug Abuse Treatment by Mobile Health Service  J. Brady
Discussant J. Ball
SYMPOSIUM V The Role of Excitatory Amino Acids in the Actions of Abused Drugs65
Titles and Participants Summary J. F. McGinty
Introduction J. F. McGinty
The Role of Excitatory Amino Acids in Behavioral Sensitization P. W. Kalivas
The Role of NMDA Receptor Systems in Dopaminergic Neuropathology P. Sonsalla
Cortical Modulation of Dopamine System Responsivity: Phasic vs. Tonic Dopamine Release A. Grace
The Role of NMDA Receptor Systems in Neuropeptide Responses to Stimulants of Abuse  G. R. Hanson
SYMPOSIUM VI Tolerance and Sensitization to Opioids and Cocaine69
Titles and Participants Summary T. H. Kramer
Opioid Tolerance in An Amphibian Model C.W. Stevens
NMDA Receptor Antagonists and Morphine Tolerance $K.ATrujillo$
Clinical Tolerance to Opioids: Myth or Reality P. J. Tiseo

Regulation of Opioid Systems by Cocaine  E. Unterwald
Mechanisms of Sensitization S. Izenwasser
SYMPOSIUM VII Antisocial Personality and Treatment Response in Substance Abusers
Titles and Participants Summary A. I. Alterman
History of Antisocial Behavioral and Treatment Outcome in Women L. Cottler
Post-Treatment Outcome in Conduct-Disordered Boys T. Crowley
Treatment Outcomes Associated with Antisocial Personality and Other Personality Disorders  R. Brooner
The Psychopathy Checklist as a Predictor of Negative Treatment Outcome $A.\ Alterman$
Discussant G. Woody
SYMPOSIUM VIII Cardiovascular Effects of Cocaine: Underlying Mechanisms
Titles and Participants Summary C. Schindler
Overview of Cocaine's Cardiovascular Effects in Animals D. Wilkerson
Peripheral Mechanism in Cocaine's Cardiovascular Effects R. A. Gillis
Pharmacological Mechanisms in Cocaine's Cardiovascular Effects C. Schindler
Cardiovascular Effects of Cocaine in Humans R. Foltin and M. Fischman
Effects of Cocaine on Vagal Tone in Humans D. Newlin
Discussant H. Levin

FORUM: DRUG RESEARCH WITH POLICY IMPLICATIONS84
Titles and Participants Summary B. A. Rouse and J. H. Autry, III
Analytical Challenges in the Chemical Diagnosis of Drug Exposure Using Urine, Blood, Saliva and Hair Specimens  D. Bush
Impact of Partner Notification on the HIV Epidemic: Simulation Model and Implications for Policy S. Blower
Outcomes of an Experiment Intervention Directed to Drug-Abusing Parolees D. Nurco, T. E. Hanlon, R. W. Bateman, T. W. Kinlock and E. Toledano
Understanding the National Treatment System: Capacity Utilization and Effectiveness  J. Kaple and A. Gadzuk
SYMPOSIUM IX Drugs of Abuse and Immunosuppression
Titles and Participants Summary M. J. Kreek
Opiates and the Immune System T. Eisenstein
Marijuana and its Psychoactive Components as Immunomodulators H. Friedman
Morphine and Cocaine: Modulators of Immune System Communication P. Peterson, T. Molitor and C. Chao
Immunotoxicity of Nitrite Inhalants  L. Soderburg
CD4 Differences Between HIV-Infected IDUs and Non-IDUs  L. S. Brown
Discussant M. J.Kreek
SYMPOSIUM X Hallucinogenic Agents: Drugs of Abuse as Neurochemical Tools9
Titles and Participants Summary F. Ivy Carroll
Classical Hallucinogens

and Therapeutic Agents  D. Zimmerman
Cannabinoids R. Johnson
Cocaine: A Structure Activity Relationship Study F. I. Carroll
SYMPOSIUM XI Behavioral, Pharmacologic and Neurobiologic Variables Important to the Analysis of Drug Self-Administration: Implicationsfor the Discovery of Potential Pharmacotherapies
Titles and Participants Summary N. A. Ator
Interrelationships Between Drug-Self Administration and Drug Discrimination $N.\ A.\ Ator$
Contextual Determinants of Drug Self-Administration  J. Bergman
Cocaine and Heroin Self-Administration: Behavioral and Pharmacologic Variables  S. Dworkin
Behavioral, Pharmacologic and Neurobiologic Measures of Cocaine Reinforcement and "Craving" Using a Multiple Schedule in the Rat $G.\ F.\ Koob$
Effects of Potential Pharmacotherapies on Behavior Maintained by Cocaine or by Alfentanil G. Winger
ANNUAL REPORTS
Dependence Studies of New Compounds in the Rhesus Monkey, Rat and Mouse (1993)
M. D. Aceto, E. R. Bowman, L. S. Harris and E. L. May
Biological Evaluation of Compounds for Their Physical Dependence Potential and Abuse Liability. XVII. Drug Evaluation Committee of the College on Problems of Drug Dependence, Inc. (1993)
Evaluation of New Compounds for Opioid Activity Annual Report
(1993)

Progress Report from the Testing Program for Stimulant and	
Depressant Drugs (1993)	
G. A. Patrick, L. S. Harris, W. L. Woolverton, M. A Nader, G. Winger	
and J. H. Woods	
Subject Index	
Author Index	