

## ORGANIZATION SECTION

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## 20th Annual Meeting American Diabetes Association June 11-12, Deauville Hotel, Miami Beach, Florida

Priscilla White, M.D., will deliver the Banting Memorial Lecture during the Scientific Session Saturday morning, June 11. Her subject will be "Childhood Diabetes — Its Course, and Influence upon the Second and Third Generations." Dr. White is associated with the Joslin Clinic and the New England Deaconess Hospital, Boston, Massachusetts.

#### BANQUET HIGHLIGHTS

- The Banting Medal will be presented to Dr. White at the Annual Banquet of the Association on Saturday evening, June 11. J. B. Collip, Ph.D., M.D., D.Sc., Dean of Medicine, Faculty of Medicine, The University of Western Ontario, London, Ontario, Canada, also will be awarded the Banting Medal.
- Deaconess Maude Behrman of Atlantic City will offer the Invocation.
- Francis D. W. Lukens, M.D., Philadelphia, will deliver the Address of the President.
- Warren J. Wisby, Associate Professor of Marine Biology, The Marine Laboratory, University of Miami, Miami, Florida, will speak on "Social Behavior in Fishes."
- The 1960 Lilly Award will be presented to Albert E. Renold, M.D. The award, supported annually by Eli Lilly and Company, consists of \$1,000 and a medal. Its purpose

is to recognize demonstrated research in the field of diabetes, taking into consideration independence of thought and originality. Dr. Renold is Assistant Professor of Medicine, Harvard Medical School; Director, Baker Clinic Research Laboratory, New England Deaconess Hospital; and Associate in Medicine (Biochemistry), Peter Bent Brigham Hospital, Boston, Massachusetts.

- The Annual Citation to an outstanding layman will be awarded to Miss Edith Jenkins of the Indianapolis Diabetes Association by Maurice Protas, M.D., Chairman of the Assembly of Delegates of the ADA.

#### SCIENTIFIC SESSIONS

Five Scientific Sessions have been scheduled this year, in place of the customary three. There will be Saturday morning and afternoon Sessions; two concurrent Sessions — one experimental and the other clinical — on Sunday morning; and a final Session on Sunday afternoon, June 12. Forty-one papers will be presented and twenty-one others will be included in the program by title. Blair Holcomb, M.D., is Chairman of the Committee on Scientific Programs, and Franklin B. Peck, Sr., M.D., is Vice Chairman. Members of the Committee include James Ashmore, Ph.D.; T. S. Danowski, M.D.; Irving Graef, M.D.; and Harvey C. Knowles, Jr., M.D.

- A special summary of the Symposium on Retinopathy, which was held in Haddonfield, New Jersey, May 1-2, by the National Institute of Neurological Diseases and Blindness,

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will be presented by the Symposium Chairman, Irving H. Leopold, M.D. Dr. Leopold is Chairman, Department of Ophthalmology, The Graduate School of Medicine, University of Pennsylvania, Philadelphia.

- Although a joint meeting will not be held with The Endocrine Society this year, arrangements again have been made so that Endocrine Society members may attend the Scientific Sessions of the ADA, and ADA members may attend, without charge, sessions on diabetes of The Endocrine Society at the Eden Roc Hotel.

### OTHER EVENTS

Thirty-seven sessions of committees, boards and other groups are scheduled. A complete list of committee and other organizational meetings will appear in the printed program.

### SCIENTIFIC SESSIONS

*Saturday morning, June 11, 9:00 a.m.*

FRANCIS D. W. LUKENS, Presiding

**The "Dextrose-Deviates": Their Relationship to Subliminal Diabetes**

LEO P. KRALL, HUGH L. C. WILKERSON and FRANK K. BUTLER, M.S. (by invitation), Joslin Clinic, Boston, Mass., and U.S. Public Health Service, Diabetes Field Research and Training Unit, Brighton, Mass.

**Glucose Tolerance in Unselected Pregnancies**

HUGH L. C. WILKERSON, U.S. Public Health Service, Diabetes Field Research and Training Unit, Brighton, Mass.

**Studies of the Etiology and Significance of Abnormal Glucose Metabolism in Pregnancy**

GEORGE W. WELSH, 3rd, University of Vermont College of Medicine, Burlington, Vt.

**Glucose Tolerance and Cortisone-Glucose Tolerance in Subjects Whose Parents Are Both Diabetic**

KELLY M. WEST, The University of Oklahoma Medical Center, Oklahoma City, Okla.

**Prediabetes in an Identical Twin**

J. M. PICKENS (by invitation), T. P. CHASE (by invitation), and ROBERT L. JACKSON, University of Missouri Medical Center, Columbia, Mo.

**Changing Brittle to Stable Diabetes**

THOMAS H. MCGAVACK, George Washington University School of Medicine, Washington, D.C., and Intermediate Service, Veterans Administration Center, Martinsburg, W. Va.

The Annual Business Meeting will be held in the Napoleon Room on Sunday, June 12, from 12:00 noon to 12:30 p.m.

A Social Hour starting at 6:30 will immediately precede the Banquet on June 11.

### THE PRINTED PROGRAM

Copies of the ADA program, containing abstracts of papers to be presented as well as those included by title, will be available at the registration desk at \$1 each. A copy is being sent to all members at no cost in advance of the meeting. The aforementioned charge will be made for additional copies secured at the time of registration. Following is a list of papers to be delivered at the Scientific Sessions in the order of their presentation. Those included in the program by title are also listed for the information of readers of the Journal.

**What Happens to Juvenile Diabetics?**

ABRAHAM H. KANTROW, State University of New York, Downstate Medical Center, Brooklyn, N.Y.

### BANTING MEMORIAL LECTURE

**Childhood Diabetes — Its Course, and Influence upon the Second and Third Generations**

PRISCILLA WHITE, Joslin Clinic, New England Deaconess Hospital, Faulkner Hospital, Boston Lying-in Hospital, Boston Floating Hospital, New England Hospital, Assistant Professor of Pediatrics, Tufts University Medical School, Boston, Mass.

*Saturday afternoon, June 11, 2:00 p.m.*

HARVEY C. KNOWLES, JR., Presiding

**The Effect of Denervation and Insulin on the Penetration of D-xylose into Rat Hemidiaphragms**

MARIA GORDON BUSE (by invitation), and JOHN BUSE, Medical College of South Carolina, Charleston, S.C.

**The Effects of Insulin in Vitro on Oxidative Reactions in the Krebs Cycle in Rat Adipose Tissue**

ALBERT I. WINEGRAD and WALTER N. SHAW (by invitation), George S. Cox Medical Research Institute and the John Herr Musser Department of Research Medicine, University of Pennsylvania, Philadelphia, Pa.

**Control by Insulin of the Magnitude of the Role of the Liver in the Disposition of a Glucose Load in Both Diabetic and Nondiabetic Dogs**

LEONARD L. MADISON, BURTON COMBES (by invitation), and REUBEN ADAMS (by invitation), University of

Texas Southwestern Medical School, Dallas, Tex.

**Fatty Acid Biosynthesis in Liver from Alloxan Diabetic and Starved Rats**

DAVID M. GIBSON (by invitation), JAMES ASHMORE, and DOROTHY D. HUBBARD (by invitation), Indiana University School of Medicine, Indianapolis, Ind.

**Cholesterol Formation in Human Diabetics**

LAURANCE W. KINSELL, GEORGE D. MICHAELS (by invitation), GEOFFREY WALKER (by invitation), and PAUL F. FLYNN (by invitation), Institute for Metabolic Research, Highland-Alameda County Hospital, Oakland, Calif.

**Defective Synthesis of Triglycerides from C-14 Acetate in the Well-controlled Stable Diabetic**

A. R. HENNES (by invitation), and Mr. T. W. REDDING (by invitation), Veterans Administration Hospital and University of Oklahoma Medical School, Oklahoma City, Okla.

**The Evidence for Hormonal Role of Endogenous Glucagon Based on Direct Measurements by a Specific Immunoassay**

ROGER H. UNGER, ANNA M. EISEN-TRAUT (by invitation), MARY S. MCCALL (by invitation), and LEONARD L. MADISON, University of Texas Southwestern Medical School and Veterans Administration Hospital, Dallas, Tex.

**Glucagon-induced Depression of Food Intake in Healthy Subjects: Another Possible Physiologic Role for Glucagon**

S. B. PENICK (by invitation), and L. E. HINKLE, JR., New York Hospital-Cornell Medical Center, New York, N.Y.

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*Sunday morning, June 12, 9:00 a.m.*

*Clinical Session*

FRANCIS D. W. LUKENS, Presiding

**Motor Nerve Conduction Velocity in Diabetes Mellitus**

THOMAS G. SKILLMAN (by invitation), ERNEST W. JOHNSON (by invitation), HELEN J. DRISKILL (by invitation), and GEORGE J. HAMWI, Ohio State University and University Hospital, Columbus, Ohio

**Skin Temperature, Sweating, and Postural Blood Pressure in Diabetic Patients with Autonomic Neuropathy**

GRACE M. ROTH (by invitation), DARRYL K. FOERSTER (by invitation), and RANDALL G. SPRAGUE, Mayo Clinic and Mayo Foundation, Rochester, Minn.

**Carbohydrate Metabolism in Pregnancy: The Significance of Glycosuria**

MILTON GROSS, Margaret Hague Maternity Hospital, Jersey City, N.J.

**Serial Studies of Renal Function in Pregnancy Complicated by Diabetes Mellitus**

ETHAN A. H. SIMS, University of Vermont College of Medicine, Burlington, Vt.

**The Blood Ketone and Plasma Nonesterified Fatty Acid (NEFA) Concentrations in Diabetic and Normal Subjects**

EMILE E. WERK, JR., and HARVEY C. KNOWLES, JR., Cincinnati Veterans Administration Hospital and University of Cincinnati College of Medicine, Cincinnati, Ohio

**Vascular Lesion Common to Retinopathy and Nephropathy, as Well as Other Vascular Complications of Diabetes Mellitus**

SIDNEY GOLDENBERG, MORRIS ALEX (by invitation), and HERMAN T. BLUMENTHAL (by invitation), The Jewish Hospital, St. Louis University School of Medicine, and Washington University School of Medicine, St. Louis, Mo.

**Report on the Conference on Diabetic Retinopathy sponsored by the National Institute of Neurological Diseases and Blindness, Haddonfield, New Jersey, May 1-2**

IRVING H. LEOPOLD, Chairman, Department of Ophthalmology, The Graduate School of Medicine, The University of Pennsylvania, Philadelphia, Pa.

**Episodic Hyperkalemic Paralysis: Report of a Case of Adynamia Episodica Hereditaria Associated with Diabetes Mellitus**

HARVEY A. TRETBAR, University of Kansas School of Medicine, Lawrence-Kansas City, Kans., and Wesley Hospital, Wichita, Kans.; LEO CAWLEY (by invitation), University of Oklahoma School of Medicine, Oklahoma City, Okla., and Wesley Hospital, Wichita, Kans.

*Sunday morning, June 12, 9:00 a.m.*

*Experimental Session*

JAMES ASHMORE, Presiding

**The Isolation of Rabbit Anti-Insulin Antibodies**

E. R. ARQUILLA and C. COBLENCÉ, B.S. (by invitation), University of Southern California School of Medicine, Los Angeles, Calif.

**The Use of Various Metabolic Parameters for the Assay of Insulin-like Activity with the Rat Epididymal Fat Pad**

JACK R. LEONARDS and BERNARD R. LANDAU, Western Reserve University School of Medicine, Cleveland, Ohio

**The Use of Adipose Tissue for the Measurement of Insulin-like Activity: Problems and Progress Report**

ALBERT E. RENOLD, Baker Clinic Research Laboratory and Harvard Medical School, Boston, Mass.

**Insulin Resistance with High Levels of Insulin-like Activity Demonstrable in Vitro and in Vivo Technics**

J. C. SHIPP, J. STEINKE, R. O. RUSSELL (by invitation), and W. B. HADLEY, Joslin Clinic, Boston, Mass.

**The Effect of Hypophyseal Stalk Section on Insulin Resistance**

RICHARD A. FIELD (by invitation), WILLIAM A. HALL (by invitation), WILLIAM H. BAKER (by invitation), and DAGOBERTO SOSA (by invitation), Harvard Medical School and Massachusetts General Hospital, Boston, Mass.

**An Insulin Antagonist Associated with Plasma Albumin**

JOHN VALLANCE-OWEN and Miss M. DELORIS LILLEY (by invitation), King's College, University of Durham, and the Royal Victoria Infirmary, Newcastle upon Tyne, England.

**The Role of Epinephrine as a Circulating Insulin Antagonist**

J. J. GROEN, S. ELDER, M.Sc. (by invitation), E. HAVIVI, M.Sc. (by invitation), and I. CHOWERS (by invitation), Hadassah University Hospital and Hebrew University-Hadassah Medical School, Jerusalem, Israel

tion), E. HAVIVI, M.Sc. (by invitation), and I. CHOWERS (by invitation), Hadassah University Hospital and Hebrew University-Hadassah Medical School, Jerusalem, Israel

**Changes in the Distribution of Endogenous Insulin between Liver and Peripheral Tissues during Physiologic Stimulation of Endogenous Insulin Secretion**

LEONARD L. MADISON and WALTER SKINNER (by invitation), University of Texas Southwestern Medical School and Parkland Memorial Hospital, Dallas, Tex.

**Glycoproteins in Newborns of Diabetic Mothers**

O. V. SIREK, A. SIREK (by invitation), and B. S. LEIBEL, Banting and Best Department of Medical Research, University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

*Sunday afternoon, June 12, 2:00 p.m.*

FRANKLIN B. PECK, SR., Presiding

**The Diabetic Pancreas: A Re-evaluation Utilizing Refined Histologic Technics**

BRUNO W. VOLK and SYDNEY S. LAZARUS, Isaac Albert Research Institute of the Jewish Chronic Disease Hospital, Brooklyn, and Albert Einstein College of Medicine, Bronx, N.Y.

**Diabetogenic Effects of Azacyclonol (Frenquel)**

ARNOLD LAZAROW and BIRUTA TREIBERGS (by invitation), University of Minnesota Medical School, Minneapolis, Minn.

**Tolerance for Glucose in the Partially Depancreatized Dog During Prolonged Administration of Tolbutamide**

HENRY L. WILDBERGER and HENRY T. RICKETTS, University of Chicago, The School of Medicine, Chicago, Ill.

**Effect of Chronic Tolbutamide Feeding on Pancreatic Function of Alloxan "Subdiabetic" Rats**

J. W. WEBER (by invitation), J. P. COLOMBO (by invitation), D. KANA-MEISHI (by invitation), R. GOLDBERG (by invitation), and PIERO P. FOA, Chicago Medical School, Chicago, Ill.

**Lipoprotein Elevations of Diabetics on Tolbutamide as Compared to Lipoprotein Levels during Insulin Therapy: Preliminary Report**

JOSEPH T. BEARDWOOD, JR., SIG-

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MUND R. GREENBERG (by invitation), ROY G. KLOTZ, JR. (by invitation), Abington Memorial Hospital, Abington, Pa.

**The Use of Long-acting Capsules of Phenformin (DB1) in Diabetic Therapy**  
JAMES M. MOSS, DeWITT E. DeLAWTER, SIDNEY A. TYROLER, and JAMES B. FIELD, Georgetown University Hospital,

**Sulfonylureas: Their Clinical Boundaries in the Treatment of Diabetes Mellitus**  
ROBERT F. BRADLEY and LEO P. KRALL, Joslin Clinic, Boston, Mass.

**Absent Deep Reflexes: A Diagnostic Clue in Unsuspected Diabetes**  
MAX ELLENBERG, The Mount Sinai Hospital, New York, N.Y.

**Preliminary Studies of "Hard to Manage" Diabetics Treated with Long-acting Phenformin**  
GEORGINA FALUDI (by invitation), and LEWIS C. MILLS, Hahnemann Medical College and Hospital, Philadelphia, Pa.

**Evidence of Insulin Resistance and Abnormalities in Glucose Utilization During Ether Anesthesia in Man**  
DOROTHY H. HENNEMAN (by invitation), and LEROY VANDAM (by invitation), Peter Bent Brigham Hospital and Harvard Medical School, Boston, Mass.

**The Intravenous Tolbutamide Tolerance Test in the Evaluation of Abnormal Carbohydrate Metabolism**  
NORMAN M. KAPLAN (by invitation), USAF Hospital, USAF Aerospace Medical Center (ATC), Lackland Air Force Base, Tex.

**Evaluation of Glucose Tolerance Tests and Nonesterified Fatty Acids in Diagnosis and Prediction of Diabetes Mellitus**  
THOMAS H. LAMBERT, ROY B. JOHNSON (by invitation), and GEOFFREY R. PAUL (by invitation), Scripps Clinic and Research Foundation, La Jolla, Calif.

**The Early Treatment of Diabetic Acidosis in the Office**  
JAMES M. MOSS, Georgetown University School of Medicine and Georgetown University Hospital, Washington, D.C.

Washington, D.C.

**Long-term Clinical and Laboratory Studies in Diabetic Patients Treated with Tolbutamide and Chlorpropamide**  
WILLIAM W. H. POTE, JR., ELMER A. ANDERSON (by invitation), BURT COCHRAN, JR., and ARTHUR J. RIESENFELD (by invitation), College of Med-

**Routine Testing for Albumin in a Diabetic Clinic Using Uristix**  
JAMES M. MOSS, GEORGE E. SCHREINER (by invitation), and JOHN H. SWEENEY (by invitation), Georgetown University Hospital, Washington, D.C.

**Experimental Diabetes in Fish**  
PAUL FOLEY NACE, McMaster University, Hamilton, Ontario, Canada, and Marine Biological Laboratory, Woods Hole, Mass.

**Derelictions in Diabetes Detection**  
L. LEWIS PENNOCK, E. LOWELL BERRY (by invitation), PAUL FUGAZZOTTO (by invitation) and HOWARD P. CADWELL (by invitation), University of Pittsburgh School of Medicine and Allegheny County Health Department, Pittsburgh, Pa.

**Clinical Outpatient Evaluation of the Usefulness of Oral Agents in the Treatment of Diabetes**  
WILLIAM W. H. POTE, JR., The College of Medical Evangelists, Los Angeles, Calif.

**Long-term Clinical and Laboratory Studies in Diabetic Patients Treated with a New Form of Tolbutamide**  
WILLIAM W. H. POTE, JR., and GEORGE BARAT (by invitation), The College of Medical Evangelists, Los Angeles, Calif.

**Observations on the Effects of Dexamethasone in Patients with Diabetes Mellitus and Retinitis Proliferans**  
WILLIAM W. H. POTE, JR., ALBERT J. JOSSELSO (by invitation), and DALE HAUCK (by invitation), The College of Medical Evangelists, Los Angeles, Calif.

**Phenethylbiguanide: Comparative Pharmacology**  
ROBERT S. RADDING and STANLEY J. ZIMMERMAN (by invitation), Hermann Hospital, Houston, Tex.

ical Evangelists, Los Angeles, Calif.

**Secondary Failure to the Sulfonylurea Drugs in the Treatment of Diabetes Mellitus**  
DeWITT E. DeLAWTER, JAMES M. MOSS and SIDNEY A. TYROLER, Georgetown University Hospital, Washington, D.C.

**Blindfold Study of Biphentamine in Obese Patients with Diabetes Mellitus**  
ARTHUR J. RIESENFELD (by invitation), and WILLIAM W. H. POTE, JR., The College of Medical Evangelists, Los Angeles, Calif.

**The Rapid Intravenous Glucose Tolerance Test in Patients with Coronary Heart Disease**  
WILL G. RYAN (by invitation), and THEODORE B. SCHWARTZ, Presbyterian-St. Luke's Hospital and University of Illinois College of Medicine, Chicago, Ill.

**Comparison of Small and Large Doses of Insulin in Therapy of Diabetic Acidosis**  
CHARLES E. SHAW, JR., GILBERT E. HURWITZ (by invitation), MORTON SCHMUKLER (by invitation), STUART H. BRAGER (by invitation), and SAMUEL P. BESSMAN (by invitation), University of Maryland School of Medicine, Baltimore

**A Study of the Response to Chlorpropamide in Patients Requiring High Insulin Dosage**  
DAVID L. SINGER (by invitation), ROBERT C. STEWART (by invitation), and DAVID HURWITZ, Diabetes Clinic, Boston City Hospital, Boston, Mass.

**The Use of the Sulfonylurea Hypoglycemic Drugs in Diabetes Mellitus**  
JUAN JOSÉ STAFFIERI, LUIS JORGE CARDONNET and DERIO EBERHARDT (by invitation), Sanatorio Britanico, Rosario, Argentina

**Hyperinsulinemia in L-leucine Sensitive Hypoglycemia**  
SHIRLEY WEISENFELD and MARTIN G. GOLDNER, Jewish Chronic Disease Hospital, Brooklyn, N.Y.

**Electron Microscopy of Islets of Langerhans in the Spontaneously Diabetic Chinese Hamster**  
JOSEPH R. WILLIAMSON (by invitation), and PAUL E. LACY, Washington University School of Medicine, St. Louis