PLEASE VISIT TECHNICAL EXHIBITS
EXHIBIT HALL

Sunday, November 17, 12:00 noon - 6:00 p.m.
Monday, November 18, 9:30 a.m. - 6:00 p.m.
Tuesday, November 19, 9:30 a.m. - 4:00 p.m

FUTURE MEETING SITES

November 15-18, 1992  Baltimore Convention Center
                      Baltimore, Maryland
November 14-17, 1993  Hynes Convention Center
                      Boston, Massachusetts
October 26-29, 1994  Orlando Convention Center
                      Orlando, Florida

NATIONAL OFFICE

American Society of Nephrology
1101 Connecticut Avenue, N.W.
Suite 700
Washington, D.C. 20036
Telephone: (202) 857-1190
FAX: (202) 223-4579

Judith A. Walker
Executive Director

Martha M. Wagner
Program Director

Pamela S. Dallstream
Convention Manager

Sherri A. Thomson
Director, Membership Services

Tracy Williams
Administrative Assistant

Printed in the USA
Copyright ©1991
THE AMERICAN SOCIETY OF NEPHTROLOGY, Washington, DC
OFFICERS
President: C.C. Tisher (1992)
Past President: M.J. Dunn (1991)
Secretary-Treasurer: J.A. Schafer (1992)

COUNCILORS
A.F. Michael (1991)
T.E. Andreoli (1992)
R.S. Cotran (1993)
W.G. Couser (1994)

1991 PROGRAM COMMITTEE
Program Committee Chairperson: C.S. Wilcox
Co-Chairpersons: R.M. Hakim
A.M. Krensky
D. Marver
W.E. Mitch
F.G. Silva
D.G. Warnock
NKF Representative: T.H. Hostetter
1992 Program Committee Chairperson: D.A. Ausiello

STANDING COMMITTEES
Audit
R.C. Blantz* (1991)
H.E. Abboud (1991)
J.R. Clapp (1991)

Clinical Practice
W.N. Suki* (1994)
B.S. Arant (1992)
W.M. Bennett (1994)
J.P. Bosch (1994)
A.K. Holcomb (1992)
L.G. Hunsicker (1993)
N.W. Levin (1993)

Constitution and Bylaws
(Ad Hoc)
R.W. Schrier* (1992)
R.G. Abramson
C.B. Carpenter
R.W. Chesney
G.H. Giebisch

T.H. Hostetter
A.R. Hull
T.D. McKinney
F.G. Silva

Historical
(Ad Hoc)
R.L. Tannen*
J.W. Boylan
C.W. Gottschalk
G.E. Schreiner

Membership and Awards
J.A. Schafer* (1992)
R.J. Alpern (1993)
J.P. Briggs (1992)
S.K. Fellner (1991)
A.M. Krensky (1991 AHA Rep)
R. Kumar (1991 AHA Rep)
D.Z. Levine (1991)

Nominations
W.E. Yarger* (1991)
V. D'Agati (1991)

Postgraduate Education
J.G. Porush* (1992)
W.M. Bennett (1992)
G.M. Eisner (1992)
P.A. Gabow (1992)
M.A. Pohl (1992)

Public Policy
T.E. Andreoli* (1992)
E.A. Alexander (1992)
W.G. Couser (1994)

continued on the next page
STANDING COMMITTEES

G.F. DiBona (1993)  
D.D. Fanestil (1993)  
S. Goldfarb (1993)  
E.J. Lewis (1994)  
D.W. Ploth (1992)  
R.E. Rieselbach (1994)  

State Network  
E. Alexander  
M.D. Bajie  
C. Baylis  
W.M. Bennett  
T. Berl  
W.K. Bolton  
W.A. Border  
J. Bouroignie  
V.M. Buckalew  
D.A. Bushinsky  
W.G. Couser  
R.P. Davis  
G.F. DiBona  
T.D. Dubose  
D.D. Fanestil  
K. Gardner  
F.J. Gennari  
R.J. Glassock  
S. Goldfarb  
A. Greenberg  
J.S. Handler  
L.A. Hebert  
T.F. Hegeman  
M.H. Humphreys  
S.R. Humphreys  
G.J. Kaloyanides  
M.A. Katz  
M.L. Kauker  
W.F. Keane  
S. Klahr  
J.B. Klein  
S.A. Kleit  
T.F. Knight  
J.A. Kuhn  
H.G. Langford  
E.J. Lewis  
R.A. Mann  
D.J. Marsh  
M. Martinez-Maldonado  
D. Marver  
F.D. McDonald  
W.L. McGuffin  
T.W. Meyer  
A.F. Michael  
W.E. Mitch

Publications  
C.C. Tisher* (1992)  
B.M. Brenner (1994)  
M.J. Dunn (1991)  
J.A. Schafer (1992)  

Scientific Policy  
S.G. Massry (1991)  
G.A. Porter (1991)  

Training Program Directors  
H.R. Jacobson* (1991)  
B.S. Arant (1992)  
P.S. Aronson (1991)  
T.D. Dubose (1993)  
T.H. Hostetter (1993)  
W.E. Mitch (1991)  
J.B. Stokes (1992)  
W.N. Suki (1991)  

*Chairperson
ACKNOWLEDGMENT

Reviewers of Abstracts for the 1991 Meeting of The American Society of Nephrology

The President of the American Society of Nephrology gratefully acknowledges the work of this year's Program Committee and the following reviewers of abstracts submitted to the Society:

PROGRAM COMMITTEE CHAIRPERSON: Christopher S. Wilcox, Gainesville, FL
CO-CHAIRPERSONS: Raymond M. Hakim, Nashville, TN
Alan M. Krensky, Stanford, CA
Diana Marver, Dallas, TX
William E. Mitch, Atlanta, GA
Fred G. Silva, Oklahoma City, OK
C. Craig Tisher, Gainesville, FL
David G. Warnock, Birmingham, AL
Thomas H. Hostetter, Minneapolis, MN

NKF REPRESENTATIVE: Dennis A. Ausiello, Boston, MA

1992 PROGRAM COMMITTEE CHAIRPERSON: 

Clinical Nephrology/Chronic Renal Disease; Electrolyte & Acid-base Disorders
Stanley Goldfarb, Chair, Philadelphia, PA
William E. Mitch, Vice Chair, Atlanta, GA
Michael Allon, Birmingham, AL
Garabed Eknoyan, Houston, TX
Bradley J. Maroni, Atlanta, GA
Stephen O. Pastan, Indianapolis, IN
Ronald D. Perrone, Boston, MA
J. Douglas Smith, New Haven, CT

Clinical Nephrology/Hereditary Disorders
Barbara R. Cole, Chair, St. Louis, MO
Fred G. Silva, Vice Chair, Oklahoma City, OK
Jay Bernstein, Royal Oak, MI
Vivette D'Agati, New York, NY
Patricia A. Gabow, Denver, CO
Clifford E. Kashtan, Minneapolis, MN
Craig C. Porter, Iowa City, IA

Clinical Nephrology/Glomerular & Tubular Disorders
Gerald B. Appel, Chair, New York, NY
Fred G. Silva, Vice Chair, Oklahoma City, OK
Sharon G. Adler, Torrance, CA
Jerry M. Bergstein, Indianapolis, IN
Edward J. Lewis, Chicago, IL
Frank D. Seney, Jr., Newport News, VA
Amir Tejani, Brooklyn, NY

Clinical Nephrology/Diabetes Mellitus; Other
Bryan D. Myers, Chair, Stanford, CA
William E. Mitch, Vice Chair, Atlanta, GA
Vardaman M. Buckalew, Jr., Winston-Salem, NC
Francis B. Gabbai, San Diego, CA
Jerome G. Porush, Brooklyn, NY
Anton C. Schoolwerth, Richmond, VA
Theodore I. Steinman, Boston, MA

Dialysis/Hemodialysis I
Thomas F. Parker, III, Chair, Dallas, TX
Raymond M. Hakim, Vice Chair, Nashville, TN
Peter A. Bluestone, Manhasset, NY
David N. Churchill, Hamilton, Ont, Canada
Paul Lawrence Kimmel, Washington, DC
Gerald Schulman, Nashville, TN
John C. Stivelman, Atlanta, GA

Dialysis/Hemodialysis II
Nathan W. Levin, Chair, New York, NY
Raymond M. Hakim, Vice Chair, Nashville, TN
Thomas A. Depner, Davis, CA
Jonathan Himmelfarb, Portland, ME
Edwin J. Macon, Atlanta, GA
Edward Ross, Gainesville, FL
Richard A. Ward, Louisville, KY

Dialysis/Peritoneal Dialysis
Dimitrios G. Oreopoulos, Chair, Toronto, Ont, Canada
Raymond M. Hakim, Vice Chair, Nashville, TN
Julia A. Breyer, Nashville, TN
Raymonde F. Gagnon, Montreal, Que, Canada
Richard J. Hamburger, Indianapolis, IN
Prakash Keshaviah, Minneapolis, MN
Nand K. Wadhwa, Stony Brook, NY

Dialysis/Anemia, Erythropoetin, Other
Victoria S. Lim, Chair, Iowa City, IA
Raymond M. Hakim, Vice Chair, Nashville, TN
Sergio R. Acchiardo, Memphis, TN
Margaret Johnson Bia, New Haven, CT
Francis Dumler, Detroit, MI
Norman Muirhead, London, Ont, Canada
Edwin A. Rutsky, Birmingham, AL
Hormones, Autacoids, Growth Factors/Peptide Hormones
John C. Burnett, Jr., Chair, Rochester, MN
Diana Marver, Vice Chair, Dallas, TX
Paula Q. Barrett, Charlottesville, VA
Oscar A. Carretero, Detroit, MI
Donald E. Kohan, Salt Lake City, UT
Fumiake Marumo, Tokyo, Japan
Jurgen B. Schermann, Ann Arbor, MI
Gary E. Striker, Bethesda, MD

Hormones, Autacoids, Growth Factors/Autacoids & Eicosanoids
John N. Forrest, Jr., Chair, New Haven, CT
Diana Marver, Vice Chair, Dallas, TX
Julio E. Benabe, San Juan, PR
Joseph V. Bonventre, Boston, MA
Aubrey R. Morrison, St. Louis, MO
Juan Carlos Pelayo, Los Angeles, CA
Morris Schambelan, San Francisco, CA

Hormones, Autacoids, Growth Factors/Growth Factors Signalling & Receptors; Other
Hanna E. Abboud, Chair, San Antonio, TX
David G. Warnock, Vice Chair, Birmingham, AL
Tom Daniel, Nashville, TN
R. Ariel Gomez, Charlottesville, VA
Marc R. Hammerman, St. Louis, MO
Jill T. Norman, Los Angeles, CA
F. Gary Toback, Chicago, IL

Hormones, Autacoids, Growth Factors/Intracellular Signalling & Receptors; Other
Harlan E. Ives, Chair, San Francisco, CA
David G. Warnock, Vice Chair, Birmingham, AL
Goligorsky, Stony Brook, NY
Kirsten M. Madsen, Gainesville, FL
John R. Raymond, Durham, NC
James A. Shayman, Ann Arbor, MI
William S. Spielman, East Lansing, MI
Isaac Teitelbaum, Denver, CO

Hemodynamics & Hypertension/Hypertension-Basic; Renal Hemodynamics
Christine Baylis, Chair, Morgantown, WV
Thomas H. Hostetter, Vice Chair, Minneapolis, MN
Sharon Anderson, Portland, OR
P. Darwin Bell, Birmingham, AL
L. Gabriel Navar, New Orleans, LA
David W. Ploth, Charleston, SC
Mark E. Rosenberg, Minneapolis, MN

Hemodynamics & Hypertension/Hypertension-Clinical
Thomas F. Ferris, Chair, Minneapolis, MN
Thomas H. Hostetter, Vice Chair, Minneapolis, MN
Peter C. Brazyl, Madison, WI
John H. Gallina, Cincinnati, OH
Nicholas J. Guzman, Gainesville, FL
Marc A. Pohl, Cleveland, OH
Stephen G. Rostand, Birmingham, AL
Wadi N. Suki, Houston, TX

Hemodynamics & Hypertension/Vasoactive Compounds & Endothelium
Barbara J. Ballemann, Chair, Baltimore, MD
David G. Warnock, Vice Chair, Birmingham, AL
John D. Conger, Denver, CO
Michael H. Humphreys, San Francisco, CA
Valentina Kon, Nashville, TN
Leopoldo Raji, Minneapolis, MN
J.C. Romero, Rochester, MN
Paul W. Sanders, Birmingham, AL

Immunology, Pathology/Basic & Experimental-Immunology
Eric G. Neilson, Chair, Philadelphia, PA
Alan M. Krensky, Vice Chair, Stanford, CA
Christine K. Abrass, Seattle, WA
William H. Baricos, New Orleans, LA
David L. Perkins, Boston, MA
David J. Salant, Boston, MA
M. A. Venkatachalam, San Antonio, TX

Immunology, Pathology/Basic & Experimental-Pathology
George F. Schreiner, Chair, St. Louis, MO
Alan M. Krensky, Vice Chair, Stanford, CA
Arthur H. Cohen, Torrance, CA
Byron P. Croker, Gainesville, FL
Richard J. Johnson, Seattle, WA
Patrick D. Walker, Little Rock, AR
Roger C. Wiggins, Ann Arbor, MI

Immunology, Pathology/Cell Matrix Interaction
Wayne A. Border, Chair, Salt Lake City, UT
Fred G. Silva, Vice Chair, Oklahoma City, OK
Roland C. Blantz, San Diego, CA
Vincent H. Gattone, II, Kansas City, KS
Dollie Florence Green, Miami, FL
Yashpal S. Kanwar, Chicago, IL

Immunology, Pathology/Clinical Immunology & Pathology
Charles E. Alpers, Chair, Seattle, WA
Fred G. Silva, Vice Chair, Oklahoma City, OK
Tito Cavallo, Providence, RI
S. Michael Maurer, Minneapolis, MN
Cynthia C. Nast, Torrance, CA
Melvin M. Schwartz, Chicago, IL
David M. Ward, San Diego, CA

Mineral Metabolism/Bone Disease; Calcium, Magnesium & Phosphorus; Parathyroid Hormone & Vitamin D
Francisco Llach, Chair, Los Angeles, CA
William E. Mitch, Vice Chair, Atlanta, GA
Allen C. Alfrey, Denver, CO
Freda L. Levy, Nashville, TN
John C. Peterson, Gainesville, FL
L. Darryl Quarles, Durham, NC
Renal Pathophysiology/Acute Renal Failure
Robert Safirstein, Chair, New York, NY
Thomas H. Hostetter, Vice Chair, Minneapolis, MN
Michael Kashgarian, New Haven, CT
Wilfred Lieberthal, Boston, MA
Lazaro Mandel, Durham, NC
Bruce A. Molitoris, Denver, CO
Kim Solez, Edmonton, Alb, Canada

Renal Pathophysiology/Toxic Nephrology
Stuart L. Linas, Chair, Denver, CO
Thomas H. Hostetter, Vice Chair, Minneapolis, MN
Sharon P. Andreoli, Indianapolis, IN
William F. Finn, Chapel Hill, NC
George J. Kaloyanides, Stony Brook, NY
Seymour Rosen, Boston, MA
Jay H. Stein, San Antonio, TX
Richard P. Wedeen, Teaneck, NJ

Renal Pathophysiology/Chronic Renal Disease
George A. Kayser, Chair, Martinez, CA
William E. Mitch, Vice Chair, Atlanta, GA
Barbara S. Daniels, Minneapolis, MN
Jonathan R. Diamond, Hershey, PA
Florence N. Hutchinson, Charleston, SC
Robert C. May, Atlanta, GA
Timothy W. Meyer, Stanford, CA

Cell & Transport Physiology/Acid-base
Robert J. Alpern, Chair, Dallas, TX
David G. Warnock, Vice Chair, Birmingham, AL
Daniel C. Batte, Chicago, IL
L. Lee Hamm, St. Louis, MO
Victor L. Schuster, Bronx, NY
John H. Schwartz, Boston, MA
Manoocher Soleimani, Indianapolis, IN
I. David Weiner, Gainesville, FL

Cell & Transport Physiology/Water, Urea, ADH
Robert J. Anderson, Chair, Denver, CO
Diana Marver, Vice Chair, Dallas, TX
H. William Harris, Jr., Boston, MA
Rajiv Kumar, Rochester, MN
Kiyoshi Kurokawa, Tokyo, Japan
Heinz Valtin, Hanover, NH
V. Matti Vehaskari, St. Louis, MO

Cell & Transport Physiology/Inorganic Ions (Na, K, Cl); Other
Douglas C. Eaton, Chair, Atlanta, GA
Diana Marver, Vice Chair, Dallas, TX
Zalman S. Agus, Philadelphia, PA
Emile L. Boulpaep, New Haven, CT
Steven C. Hebert, Boston, MA
James P. Knochel, Dallas, TX
Orson W. Moe, Dallas, TX
Bruce A. Stanton, Hanover, NH

Cell & Transport Physiology/Organic Solutes, Osmolytes, Renal Metabolism
Vincent W. Dennis, Chair, Durham, NC
Diana Marver, Vice Chair, Dallas, TX
Mario Barac-Nieto, Bronx, NY
Michael C. Chobanian, Madison, WI
Arlyn Garcia-Perez, Bethesda, MD
Julian L. Seifter, Boston, MA
Patrick Vinay, Montreal, Que, Canada

Transplantation/Basic & Experimental
Terry B. Strom, Chair, Boston, MA
Alan M. Krensky, Vice Chair, Stanford, CA
Thomas M. Coffman, Durham, NC
Andrew I. Lazarovits, London, Ont, Canada
Robin P. Lowry, Atlanta, GA
Christopher Y. Lu, Dallas, TX
Manikkam Suthanthiran, New York, NY

Transplantation/Clinical
William J. C. Amend, Jr., Chair, San Francisco, CA
Alan M. Krensky, Vice Chair, Stanford, CA
M. R. First, Cincinnati, OH
Robert S. Gaston, Birmingham, AL
Robert A. Grossman, Philadelphia, PA
Donald E. Hricik, Cleveland, OH
Thomas E. Nevins, Minneapolis, MN
John F. Neylan, III, Atlanta, GA
ANNOUNCEMENT

The American Society of Nephrology
and
The American Heart Association

YOUNG INVESTIGATOR AWARD

The purpose of this annual award is to recognize young investigators for excellence in nephrological research. The awardee will be judged primarily on the significance and originality of his or her published work. The candidate will have provided evidence of creativity and productivity for several years beyond the fellowship level, and must be less than 41 years of age on the first day of the annual meeting of the American Society of Nephrology in which the award is presented.

The award will consist of a certificate of recognition, an unrestricted grant of $5,000 to the laboratory of the awardee, and paid travel expenses to the meeting.

HOW TO APPLY:
* Candidates must be proposed and seconded, in one letter, by two members of the American Society of Nephrology, or by one member of the American Society of Nephrology and one member of the Council on the Kidney of the American Heart Association. All pertinent materials must be received by March 1 of the year in which the annual meeting of the American Society of Nephrology is held.

* The letter of nomination, not exceeding two pages, should emphasize the originality and significance of the scientific accomplishments of the candidate, and identify and highlight the three or four most important publications of the candidate.

* No more than four additional letters of support should accompany the letter of nomination, and should be from individuals well familiar with the candidate’s work. At the most, only two of these supporting letters should be from a candidate’s own institution, and ideally should be from individuals who can give a national perspective on the work being acclaimed in the letter of nomination.

* A complete curriculum vitae with a bibliography of the candidate should be submitted with the letter of nomination.

* Candidates who are not successful should submit a new application for each year they wish to be considered, providing they still meet the age criterion.

* Nine copies of the curriculum vitae, letter of nomination, and supporting letters should be sent in one packet, no later than March 1, 1992, to the American Society of Nephrology, Attention Young Investigator Award Committee, 1101 Connecticut Avenue, N.W., Suite 700, Washington, D.C. 20036.
HOMER W. SMITH Awardees

Co-sponsored by
The American Society of Nephrology
and the
New York Heart Association

Heine H. Murer - 1991
Klaus Thurau, 1990
Rolf Kinne - 1989
Marilyn G. Farquhar - 1988
Joseph S. Handler - 1987
Emile Boulpaep - 1986
Philip R. Steinmetz - 1985
Barry M. Brenner - 1984
Eberhard Fromter - 1983
Floyd C. Rector, Jr. - 1982
Alexander Leaf - 1981
Isidore S. Edelman - 1980
Francois Morel - 1979
Erich E. Windhager - 1978

Maurice B. Burg - 1977
Frank J. Dixon - 1976
Karl J. Ullrich - 1975
No Award Presented - 1974
Jack Orloff - 1973
Hugh E. de Wardener - 1972
Gerhard Giebisch - 1971
Carl W. Gottschalk - 1970
James A. Shannon - 1969
Jean R. Oliver - 1968
Heinrich Wirz - 1967
Hans H. Ussing - 1966
Robert W. Berliner - 1965
Robert F. Pitts - 1964

Young Investigator Awardees

Stephen T. Reeders - 1991
Alan M. Krensky, 1990
Rajiv Kumar - 1989
Martin G. Cogan - 1988
Eric G. Neilson - 1987
Walter F. Boron - 1986
Peter S. Aronson - 1985

John P. Peters Awardees

Neal S. Bricker & Roscoe R. Robinson - 1991
John H. Laragh & Louis Tobian - 1990
George E. Schreiner - 1989
Renee Habib & Henry Barnett - 1988
Conrad L. Pirani & Jacob Churg - 1987
Belding H. Scribner - 1986
Franklin H. Epstein - 1985
John P. Merrill & Jean Hamburger - 1984
Donald W. Seldin - 1983
CORPORATE SPONSORS

The American Society of Nephrology wishes to acknowledge the following corporate sponsors whose generous support assists the society in providing research awards and in developing services to meet the needs of today’s nephrologists.

AMGEN Inc.
Baxter, Renal Division
Marion Merrell Dow Inc.
Merck Sharp & Dohme
Ortho Biotech
Pfizer Laboratories
Sandoz Pharmaceuticals Corp.
Searle

PAST PRESIDENTS

1989-90 Michael J. Dunn
1988-89 Jay H. Stein
1987-88 Thomas F. Ferris
1986-87 Barry M. Brenner
1985-86 Saulo Klahr
1984-85 Juha P. Kokko
1983-84 Richard J. Glassock
1982-83 Robert W. Schrier
1981-82 Roscoe R. Robinson
1980-81 Maurice B. Burg
1979-80 Robert L. Vernier
1978-79 Belding H. Scribner
1977-78 Laurence E. Earley
1976-77 Floyd C. Rector, Jr.
1975-76 Carl W. Gottschalk
1974-75 William B. Schwartz
1973-74 Jack Orloff
1972-73 Robert H. Heptinstall
1971-72 Gerhard H. Giebisch
1970-71 George E. Schreiner
1969-70 Louis G. Welt
1968-69 Robert W. Berliner
1967-68 Donald W. Seldin
1966-67 Neal S. Bricker
ANNOUNCEMENTS

AMERICAN SOCIETY OF NEPHROLOGY
Qualifications for membership—(a) Publication of at least one creditable paper in the field of nephrology, or (b) Successful completion of a research or clinical traineeship in nephrology, specialized training in nephrology during a residency, or other relevant postgraduate education, or (c) Extensive clinical experience as a specialist and consultant in kidney disease and related conditions. A subscription to the Journal of the American Society of Nephrology is included in the annual dues of $100 for North or Central American membership or $115 for Corresponding membership residing outside of North or Central America. For membership application forms, write: American Society of Nephrology, 1101 Connecticut Avenue, N.W., Suite 700, Washington, D.C. 20036, (202) 857-1190, FAX (202) 223-4579.

AMERICAN KIDNEY FUND CLINICAL SCIENTIST IN NEPHROLOGY FELLOWSHIP PROGRAM
The American Kidney Fund awards up to three Clinical Scientist in Nephrology Fellowships annually. The goal of this program is to enhance the training of nephrologists who desire to pursue an academic career and whose primary professional commitment is to scholarship in the provision of clinical care. For a detailed program description and application forms, please write to: Anna E. Monsef, Director of Education and Community Services, American Kidney Fund, 6110 Executive Boulevard, Suite 1010, Rockville, Maryland 20852, or call (301) 881-3052 or toll-free (800) 638-8299.

INTERNATIONAL SOCIETY OF NEPHROLOGY
Any elected member of a national society of nephrology is eligible for proposal to membership in the International Society of Nephrology and receipt of the Society's official journal, Kidney International. A subscription to Kidney International (including all Supplements) for calendar year 1992 is included in the annual dues of U.S. $100. Potential new members may secure application forms for membership by writing directly to Dr. C. Craig Tisher, Treasurer, International Society of Nephrology, Box J-231, JHMHC, University of Florida, Gainesville, Florida 32610, USA. The completed application form must be signed by two sponsors who are current fellow members of the ISN and returned to Dr. Tisher along with a check or money order for U.S. $100 made payable to the International Society of Nephrology; checks from outside the USA should be drawn on a U.S. Bank in U.S. funds. Credit cards including Visa, Mastercard, and American Express are accepted.

The XIIth International Congress of Nephrology is scheduled to be held in Jerusalem, Israel from June 13-19 1993. The Congress president is Professor Joseph B. Rosenfeld.

Officers: Roscoe R. Robinson, President (USA)
Klaus Thurai, Immediate Past President (GER)
John Stewart Cameron, President-Elect (UK)
Robert W. Schrier, Vice-President (USA)
Claude Arnal, Secretary-General (FRANCE)
C. Craig Tisher, Treasurer (USA)
Thomas E. Andreoli, Editor (USA)

NATIONAL INSTITUTES OF HEALTH (NIH)
GRANTS MECHANISMS SEMINAR
Program and Review staff of the NIH will be convening a grants seminar during the ASN Annual Meeting & Exposition in Room 101, located in the Baltimore Convention Center from 12:00 Noon-1:30 p.m. on Monday and Tuesday, November 18 and 19, 1991. All aspects of NIH grant mechanisms will be discussed, including grant preparation, review and management.
Participating will be Division of Kidney, Urologic and Hematologic Diseases (DKUHD), NIDDK staff, Drs. Lawrence Y. Agodoa, Ralph L. Bain, Gladys H. Hirschman, Camille A. Jones, John W. Kusek, Charles H. Rodgers, and M. James Scherbernske, and Dr. Ann A. Hagan, Review Branch, NIDDK and Dr. Daniel F. McDonald, Division of Research Grants (DRG).

NATIONAL KIDNEY FOUNDATION
Applications for membership in the National Kidney Foundation can be secured by writing directly to the National Kidney Foundation, Inc., 30 East 33rd Street, New York, NY 10016. Subscriptions to the American Journal of Kidney Diseases (including all Supplements), Nutrition and Blood Pressure Reviews and The Kidney for calendar year 1992 are included in the annual dues of $135 for U.S. membership or $145 for International membership. The completed application form should be returned to the above address along with a check or money order made payable to the National Kidney Foundation. Payment from outside the USA must be made in U.S. dollars by international money order or bank draft or by credit card.
The Annual Scientific Meeting of the National Kidney Foundation will be held at the Baltimore Convention Center, November 15-17, 1991.

RENAI PHYSICIANS ASSOCIATION
Please join us for two important meetings sponsored by the Renal Physicians Association, dedicated to keeping the renal community informed about important socioeconomic and practice developments:
- the annual "Legislative Update" being held Monday, November 18, 1991, from 12:15-1:30 p.m. in Room 102-104 at the Baltimore Convention Center where topics such as RBRVS implementation and the development of nephrology practice parameters will be discussed.

WOMEN IN NEPHROLOGY
The 1991 annual meeting of Women in Nephrology will be held Monday, November 18, 1991, 12:15-1:30 p.m. in the Maryland Suite at the Hyatt Regency Hotel. All members and guests of the American Society of Nephrology are welcome to attend.
Speaker: Marcia Angell, MD
Executive Editor, The New England Journal of Medicine; Lecturer in Social Medicine Division of Medical Ethics, Harvard Medical School
Topic: Ethical Issues in Medical Publishing
NATIONAL KIDNEY FOUNDATION FELLOWSHIPS
1991 - 1992

The National Kidney Foundation began a Research Fellowship Program in 1967. The American Society of Nephrology and the American Urological Association later joined in this important effort: first, by contributing funds for some of the fellowships and then by designating some of the members of the Research Fellowship and Grants Committee who make the selections. These research fellowships are administered by the National Kidney Foundation where requests for applications should be sent. Fellows are listed below, according to the origin of the funds used to support them.

AMERICAN SOCIETY OF NPHROLOGY/MARION MERRELL DOW FELLOW
HERBERT T. COHEN, M.D.
University of Chicago
Chicago, Illinois
Sponsor: Adrian J. Katz, M.D.
Title of Project: Protein Kinase C Modulation of the Renal Na+:K Pump

AMERICAN SOCIETY OF NPHROLOGY/PFIZER LABORATORIES FELLOW
PRASAD DEVARAJAN, M.D.
Yale University
New Haven, Connecticut
Sponsor: Norman J. Siegel, M.D.
Title of Project: Mechanism of Renal Epithelial Cell Polarization

AMERICAN SOCIETY OF NPHROLOGY/AMGEN, INC. FELLOW
TOHRU MATSUMOTO, M.D.
Albert Einstein College of Medicine
Bronx, New York
Sponsor: George J. Schwartz, M.D.
Title of Project: Development of Acid-Base Gene Expression in Cultured Inner Medullary Collecting Duct Cells

AMERICAN SOCIETY OF NPHROLOGY/SEARLE FELLOW
ANA L. PAREDES, M.D.
Children's Hospital
Boston, Massachusetts
Sponsor: H. William Harris, M.D.
Title of Project: Structural Similarity of Human Red Cell and Antidiuretic Hormone-Elicited Water Channels

AMERICAN SOCIETY OF NPHROLOGY/SANDOZ PHARMACEUTICALS FELLOW
CHRISTIE P. THOMAS, M.D.
Case Western Reserve University
Cleveland, Ohio
Sponsor: Michael J. Dunn, M.D.
Title of Project: Mechanisms of Endothelial Induced Mesangial Cell Proliferation

AMERICAN SOCIETY OF NPHROLOGY/MERCK SHARP & DOHME FELLOW
DAVID TOVBIN, M.D.
University of Southwestern Texas
Dallas, Texas
Sponsor: Robert Alpern, M.D.
Title of Project: Transcriptional Regulation in the Na/H+ Antiporter

BURROUGHS WELLCOME FUND/NATIONAL KIDNEY FOUNDATION FELLOWSHIPS
ALAN HANSON, M.D.
University of Colorado
Denver, Colorado
Sponsor: Stuart Linas, M.D.
Title of Project: Contribution of Neutrophils to Ischemia/Reperfusion Injury

ALAN S. SEGAL, M.D.
Yale University
New Haven, Connecticut
Sponsor: Emile L. Boulpaep, M.D.
Title of Project: Patch-Clamp Studies of Basolateral Membrane Ion Channels of Isolated Ambystoma Proximal Tubule Cells

SANDOZ PHARMACEUTICALS CORPORATION/NATIONAL KIDNEY FOUNDATION FELLOW
CINDY CORPIER, M.D.
Beth Israel Hospital
Boston, Massachusetts
Sponsor: Terry Strom, M.D.
Title of Project: The Molecular Basis of IL-2 Receptor Mediated Signal Transduction

BAXTER HEALTHCARE CORPORATION/NATIONAL KIDNEY FOUNDATION FELLOWSHIPS
EDDIE GREENE, M.D.
University of Minnesota
Minneapolis, Minnesota
Sponsor: Mark S. Paller, M.D.
Title of Project: Anoxic Proximal Renal Tubular Cell Injury and Oxygen-Free Radicals
ERWIN KESHWAR
NATIONAL MARION HOFFMAN SUZANNE KEVIN AL! FELLOWSHIPS
SANJEEV FOUNDATION MARION MERRELL DOW/NATIONAL KIDNEY MELVIN BONILLA-FELIX, M.D.
LISA HARRISON-BERNARD, Ph.D. NATIONAL KIDNEY FOUNDATION
Tulane University Florida University of Pennsylvania
New Orleans, Louisiana
Sponsor: Carolyn Carmines, Ph.D. LISA HARRISON-BERNARD, Ph.D.
Title of Project: Vasa Recta Control of Renal Medullary Micro-Circulation
Sanjeev Anand, Michael B. Ganz, M.D.
University of Pennsylvania
Philadelphia, Pennsylvania
Sponsor: Gopal Krishna, M.D.
Title of Project: Mechanism of Hypertension Induced by Potassium Depletion
KESHWAR BABOOLAL, M.D.
Stanford University
Palo Alto, California
Sponsor: Timothy Meyer, M.D.
Title of Project: Activation of the Renin-Angiotensin System in Experimental Renal Disease
ERWIN BOTTINGER, M.D.
Massachusetts General Hospital
Boston, Massachusetts
Sponsor: M. Amin Arnaout, M.D.
Title of Project: Gene Regulation of the Neutrophil Adhesion Receptor CD11a/CD18
KEVIN CURRAN, M.D.
University of Florida
Gainesville, Florida
Sponsor: Charles Wingo, M.D.
Title of Project: Role of H-K ATPase in Urinary-Acidification
SUZANNE K. SWAN, M.D.
Oregon Health Sciences University
Portland, Oregon
Sponsor: William M. Bennett, M.D.
Title of Project: Aminoglycoside Nephrotoxicity and Nephroprotection by Polyaspartic Acid: Study of Intracellular Events Using Optical Techniques for Drug Localization
Hoffman La Roche/National Kidney Foundation Fellowship
Lisa Harrison-Bernard, Ph.D.
Tulane University
New Orleans, Louisiana
Sponsor: Carolyn Carmines, Ph.D.
Title of Project: Vasa Recta Control of Renal Medullary Micro-Circulation
Marion Merrell Dow/National Kidney Foundation Fellowship
Sanjeev Anand, M.D.
University of Pennsylvania
Philadelphia, Pennsylvania
Sponsor: Gopal Krishna, M.D.
Title of Project: Mechanism of Hypertension Induced by Potassium Depletion
National Kidney Foundation Fellowships
Ali Abu-Alfa, M.D.
Yale University
New Haven, Connecticut
Sponsor: Michael B. Ganz, M.D.
Title of Project: Mechanism for Growth Factor Activation of the Na-H Exchanger in Glomerular Mesangial Cells
Keshwar Baboolal, M.D.
Stanford University
Palo Alto, California
Sponsor: Timothy Meyer, M.D.
Title of Project: Activation of the Renin-Angiotensin System in Experimental Renal Disease
Erwin Bottinger, M.D.
Massachusetts General Hospital
Boston, Massachusetts
Sponsor: M. Amin Arnaout, M.D.
Title of Project: Gene Regulation of the Neutrophil Adhesion Receptor CD11a/CD18
Kevin Curran, M.D.
University of Florida
Gainesville, Florida
Sponsor: Charles Wingo, M.D.
Title of Project: Role of H-K ATPase in Urinary-Acidification
Dennis Eneanya, M.D.
Temple University
Philadelphia, Pennsylvania
Sponsor: Christine P. Bastl, M.D.
Title of Project: Glucocorticoid Regulation of Na-H Antiport
Melvin Bonilla-Felix, M.D.
Washington University
St. Louis, Missouri
Sponsor: L. Lee Hamm, M.D.
Title of Project: Water Transport by the Immature Collecting Tubule
James Fishman, M.D.
University of California at Davis
Sacramento, California
Sponsor: Paul Gumerlock, Ph.D.
Title of Project: Molecular Analysis of Prostatic Cancer Metastatic Potential
John Fitzpatrick, M.D.
Boston University
Boston, Massachusetts
Sponsor: David J. Salant, M.D.
Title of Project: Cytokine Deregulation in Murine Lupus
Mary Godinich, M.D.
University of Texas Health Sciences Center
Houston, Texas
Sponsor: Thomas D. DuBose, Jr., M.D.
Title of Project: Fluorescence Techniques in Measuring Ca++; Characterization of the Na+Ca+ Exchange in Fat Aortic Smooth Muscle Cells; Isolation and Culture of Rat Aortic Smooth Muscle Cells
Edi Levi, M.D., Ph.D.
University of Southern California
Los Angeles, California
Sponsor: Shaul G. Massry, M.D.
Title of Project: Insulin Secretion in Chronic Renal Failure
William Manning, Ph.D.
Stanford University
Stanford, California
Sponsor: Alan M. Krensky, M.D.
Title of Project: Regulation of Expression of a Novel T Lymphocyte Differentiation Gene
Sara M. Mariani, M.D.
New York Medical College
Valhalla, New York
Sponsor: Soldano Ferrone, M.D.
Title of Project: Role of Antidiotypes in the survival of Renal Allografts across anti HLA Class I immunity: Analysis at the clonal level
GABRIELLA RYAN, Ph.D.
Washington University
St. Louis, Missouri
Sponsor: Marc R. Hammerman, M.D.
Title of Project: Role of Polypeptide Growth Factors in Renal Development

AJAY SINGH, M.R.C.P.
New England Medical Center
Boston, Massachusetts
Sponsor: Kathleen Barrett, Ph.D.
Title of Project: V Gene Analysis of Autoantibodies that form Glomerular Immune Deposits in Murine Lupus Nephritis

DOUGLAS L. SOMERS, M.D.
University of Iowa
Iowa City, Iowa
Sponsor: John A. Bertolatus, M.D.
Title of Project: Mediators Affecting Mesangial Cell Collagen Synthesis

KHAI TRAM, M.D.
V. A. Medical Center
Sepulveda, California
Sponsor: David B. N. Lee, M.D.
Title of Project: Effects PTH on Calcium-Binding Proteases in Osteoblastic Cells

WILLIAM BRIAN TELLE, M.D.
Jewish Hospital of St. Louis
St. Louis, Missouri
Sponsor: Timothy L. Ratliff, Ph.D.
Title of Project: Cloning of the BCG Fibronectin Binding Protein

MARIO YAMAKI, M.D.
Mayo Clinic
Rochester, Minnesota
Sponsor: Thomas P. Douxa, M.D.
Title of Project: Cyclic 3', 5'-Nucleotide Phosphodiesterases in Inner Medullary Collecting Duct Cells

ALAN YU, M.D.
Brigham and Women’s Hospital
Boston, Massachusetts
Sponsor: Jonathan Lytten, M.D.
Title of Project: Molecular Cloning of the Renal Plasma Membrane Ca++ Pump Sites and Regulation of Gene Expression

AFFILIATE MATCHING RESEARCH FELLOWSHIPS

SUSAN MULRONEY, Ph.D.
Georgetown University
Washington, D.C.
Sponsor: Aviad Haramati, Ph.D.
Title of Project: Age-Related Differences in Compensatory Renal Growth: Role of Growth Hormone and IGF-1

LARRY MOSS, M.D.
Oregon Health Sciences University
Portland, Oregon
Sponsor: Susan P. Bagby, M.D.
Title of Project: Angiotensin II and Mesangial Cell Growth and Matrix Synthesis

SUBODH J. SAGGI, M.D.
Mt. Sinai School of Medicine
New York, New York
Sponsor: Robert Safirstein, M.D.
Title of Project: Renal Epidermal Growth Factor Gene and Receptor Control During Ischemic Renal Failure

CYNTHIA SHORT, M.D.
University of Rochester
Rochester, New York
Sponsor: David Bushinsky, M.D. and Nancy S. Krieger, Ph.D.
Title of Project: Use of Immunodissected Bone Cells to Study Regulation of Bone Cell Function During Acidosis

JAMES TUMLIN, M.D.
Emory University
Atlanta, Georgia
Sponsor: Jeff Sands, M.D.
Title of Project: Effects of Osmolality on Inner Medullary Function

AMERICAN FOUNDATION FOR UROLOGIC DISEASE - NATIONAL KIDNEY FOUNDATION FELLOWSHIPS

LAURENCE BASKIN, M.D.
Surgical Associates Research Education Foundation
King of Prussia, Pennsylvania
Sponsor: John W. Duckett, M.D. and Robert Levin, Ph.D.
Title of Project: Ontogeny of Bladder Function: Changes in Neuro-Transmitter Response and Energetics

MICHAEL CARR, M.D., Ph.D.
Children’s Hospital of Boston
Boston, Massachusetts
Sponsor: James Mandell, M.D.
Title of Project: Molecular Indicators of Renal Growth and Development in Congenital Obstructive Uropathy

JOHN PATRICK CONNER, M.D.
Memorial Sloan Kettering Cancer Center
New York, New York
Sponsor: William R. Fair, M.D.
Title of Project: The Characterization and Quantitation of a Novel Protein Marker of Renal Cell Injury Expressed in both Serum and Urine

MARGARET PEARLE, M.D., Ph.D.
Northwestern University
Chicago, Illinois
Sponsor: James L. Duncan, D.D.S., Ph.D.
Title of Project: Regulation of Pili Expression in Uropathogenic Strains of Escherichia Coli
NATIONAL KIDNEY FOUNDATION
YOUNG INVESTIGATOR GRANTS
1991-1992

The first National Kidney Foundation Young Investigator Grants were announced at the 1986 Annual Meeting, with funding beginning July 1, 1987. The purpose of these grants, made possible by the National Kidney Foundation Research Endowment Fund, is to support research by individuals who have completed fellowship training and who hold junior faculty positions at university-affiliated medical centers in the United States. The American Society of Nephrology made a substantial grant to the Research Endowment Fund and many members of the Society have contributed to the growth of the Fund either individually or by assisting in fund raising activities.

NATIONAL KIDNEY FOUNDATION/AMERICAN SOCIETY OF NEPHROLOGY GRANT
ROBERT SPURNEY, M.D.
Duke University Medical Center
Durham, North Carolina
Title of Project: The Role of 5-Lipoxygenase Metabolites in Murine Lupus Nephritis

NATIONAL KIDNEY FOUNDATION/AMGEN, INC. GRANT
STEPHEN O. PASTAN, M.D.
Indiana University
Indianapolis, Indiana
Title of Project: Effect of Cyclosporine A Withdrawal at the Time of Anti-CD3 Treatment on In Vivo T-Cell Cytotoxicity

NATIONAL KIDNEY FOUNDATION/E. R. SQUIBB & SONS, INC. GRANT
KATHLEEN G. DICKMAN, Ph.D.
Duke University Medical Center
Durham, North Carolina
Title of Project: Energy Metabolism and Ion Transport in Diabetic Kidneys

NATIONAL KIDNEY FOUNDATION/GEORGE E. SCHREINER, M.D. GRANT
WILLIAM R. JACOBS, Ph.D.
University of Tennessee
Knoxville, Tennessee
Title of Project: GTP Metabolism During Renal Tubule Anoxia

NATIONAL KIDNEY FOUNDATION, INC. GRANT
MARGERY MANULI, M.D.
University of Rochester
Rochester, New York
Title of Project: Regulation of Renal Tubular Na-K ATPase by Extracellular Potassium

NATIONAL KIDNEY FOUNDATION/NATIONAL MEDICAL CARE GRANT
BRAD ROVIN, M.D.
Ohio State University
Columbus, Ohio
Title of Project: The Effect of Essential Fatty Acid Deficiency on Experimental Glomerulonephritis in Rats: Investigation of the Mechanisms Underlying the Amelioration of Immune Injury

NATIONAL KIDNEY FOUNDATION/PATRICIA WEILDER ROBINSON GRANT
JUAN GONZALEZ, M.D.
Baylor College of Medicine
Houston, Texas
Title of Project: Cloning and Characterization of Ca++ ATPases in Rat Kidney

NATIONAL KIDNEY FOUNDATION/PFIZER LABORATORIES GRANT
CHARLES PRUCHNO, M.D.
University of Iowa
Iowa City, Iowa
Title of Project: The Molecular Basis of Alport Syndrome

NATIONAL KIDNEY FOUNDATION/SATELLITE DIALYSIS CENTERS GRANT
JILL T. NORMAN, Ph.D.
UCLA School of Medicine
Los Angeles, California
Title of Project: The Role of Tubulointerstitial Interaction in Interstitial Fibrosis of the Kidney

NATIONAL KIDNEY FOUNDATION/SHAUL G. MASSRY, M.D. GRANT
DAVID HAGERTY, M.D.
Jewish Hospital of St. Louis
St. Louis, Missouri
Title of Project: Antigen Processing and Presentation by the Renal Proximal Tubule: Role in Host Defence, Autoimmunity and Self-Tolerance

NATIONAL KIDNEY FOUNDATION/SMITH, KLINE & FRENCH LABORATORIES GRANT
DAVID M. NANUS, M.D.
Memorial Sloan-Kettering Cancer Center
New York, New York
Title of Project: The Molecular Basis of Resistance to Alpha-Interferon and Transformation in Renal Cell Carcinoma

NATIONAL KIDNEY FOUNDATION/SOLOMAN PAPPEN, M.D. GRANT
MICHAEL ERIC ULLIAN, M.D.
Medical University of South Carolina
Charleston, South Carolina
Title of Project: Effect of Fish Oil on Angiotensin in II Action in Cultured Vascular Smooth Muscle Cells
## NATIONAL KIDNEY FOUNDATION ANNUAL SCIENTIFIC MEETING PROGRAM

### THURSDAY, NOVEMBER 14

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 p.m.</td>
<td>Chairman’s and President’s Event (Sponsored by AMGEN, Inc.)</td>
</tr>
</tbody>
</table>

### FRIDAY, NOVEMBER 15

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:15 p.m.</td>
<td>Introductory Remarks</td>
</tr>
<tr>
<td></td>
<td>Thomas H. Hostetter, M.D.</td>
</tr>
<tr>
<td></td>
<td>Minneapolis, Minnesota</td>
</tr>
<tr>
<td></td>
<td>Program Chairman, National Kidney Foundation Annual Scientific Meeting</td>
</tr>
<tr>
<td>1:30 - 3:30 p.m.</td>
<td>SYMPOSIA</td>
</tr>
<tr>
<td></td>
<td>MANAGING CARDIOVASCULAR COMPLICATIONS IN THE RENALLY IMPAIRED PATIENT</td>
</tr>
<tr>
<td></td>
<td>(Symposium Sponsored by Pfizer Inc.)</td>
</tr>
<tr>
<td></td>
<td>Chairman: Robert W. Schrier, M.D.</td>
</tr>
<tr>
<td></td>
<td>Denver, Colorado</td>
</tr>
<tr>
<td></td>
<td>Cardiovascular and Renal Disease: Interactions and Outcomes in Renal Patients</td>
</tr>
<tr>
<td></td>
<td>P.S. Parfrey, M.D.</td>
</tr>
<tr>
<td></td>
<td>St. John’s, Newfoundland, Canada</td>
</tr>
<tr>
<td></td>
<td>Cardiac Dysfunction in the Renally Impaired Patient: Managing Ischemia</td>
</tr>
<tr>
<td></td>
<td>Jawahar Mehta, M.D.</td>
</tr>
<tr>
<td></td>
<td>Gainesville, Florida</td>
</tr>
<tr>
<td></td>
<td>Heart Failure in the Renally Impaired Patient: The Role of Neurohormones</td>
</tr>
<tr>
<td></td>
<td>Milton Packer, M.D.</td>
</tr>
<tr>
<td></td>
<td>New York, New York</td>
</tr>
<tr>
<td></td>
<td>Cardiac Dysfunction in the Renal Transplant Patient: Management and Evaluation of C.H.D.</td>
</tr>
<tr>
<td></td>
<td>Connie Manske, M.D.</td>
</tr>
<tr>
<td></td>
<td>Minneapolis, Minnesota</td>
</tr>
<tr>
<td>4:00 - 6:00 p.m.</td>
<td>SYMPOSIA</td>
</tr>
<tr>
<td></td>
<td>CURRENT AND CONTINUING CONTROVERSIES IN HYPERTENSION</td>
</tr>
<tr>
<td></td>
<td>(Council on Hypertension Symposium)</td>
</tr>
<tr>
<td></td>
<td>Chairman: Emmanuel Bravo, M.D.</td>
</tr>
<tr>
<td></td>
<td>Cleveland, Ohio</td>
</tr>
<tr>
<td></td>
<td>Ischemic Nephropathy: To Intervene or Not to Intervene?</td>
</tr>
<tr>
<td></td>
<td>Stephen Textor, M.D.</td>
</tr>
<tr>
<td></td>
<td>Rochester, Minnesota</td>
</tr>
<tr>
<td></td>
<td>Insulin Resistance: Does it Cause Hypertension?</td>
</tr>
<tr>
<td></td>
<td>Theodore Kotchen, M.D.</td>
</tr>
<tr>
<td></td>
<td>Morgantown, West Virginia</td>
</tr>
<tr>
<td></td>
<td>Can High Blood Pressure be Lowered Too Far?</td>
</tr>
<tr>
<td></td>
<td>Henry Black, M.D.</td>
</tr>
<tr>
<td></td>
<td>New Haven, Connecticut</td>
</tr>
</tbody>
</table>

- Biochemical Nature of Glucose-Induced Injury in Diabetes
  - Joseph Williamson, M.D.
  - St. Louis, Missouri
- Abnormalities in Kidney Matrix in Diabetes
  - Fuad Ziyadeh, M.D.
  - Philadelphia, Pennsylvania
- New Insights into Type II Diabetic Nephropathy
  - H.H. Parving, M.D.
  - Copenhagen, Denmark
- OBSTRUCTIVE UROPATHY
  - (Council on Urology Symposium and American Urological Association Lecture)
  - Obstructive Uropathy Pathophysiology
    - Ernest Sosa, M.D.
    - New York, New York
  - Supravesical Obstruction
    - Charles Brendler, M.D.
    - Baltimore, Maryland
  - Infra-vesical Obstruction
    - Stephen Jacobs, M.D.
    - Baltimore, Maryland
  - Obstructive Uropathy in the Pediatric Patient
    - Jack S. Elder, M.D.
    - Cleveland, Ohio

- NEW INSIGHTS INTO PATHOGENESIS OF DIABETIC NEPHROPATHY
  - (Council on Diabetic Kidney Disease Symposium)
  - Chairman: Stanley Goldfarb, M.D.
  - Philadelphia, Pennsylvania
  - Status of Clinical Research Trials in Diabetic Nephropathy
    - Gary Stricker, M.D.
    - Bethesda, Maryland
SATURDAY, NOVEMBER 16

LECTURES

8:15 a.m. LIPIDS AND RENAL DISEASES
(Symposium Sponsored by Bristol-Myers Squibb Company)
Chairman: Gerald Appel, M.D.
New York, New York
Cellular Mechanisms of Lipid Actions and Damage in the Kidney
Detlef Schlondorff, M.D., Ph.D.
New York, New York
Effects of Lipid Modulation on Renal Injury
William Keane, M.D.
Minneapolis, Minnesota
Diagnosis and Management of Dyslipidemia in Renal Disease
Gerald Appel, M.D.
New York, New York

ORGAN DYSFUNCTION IN UREMIA
Chairman: Kevin Martin, M.D.
St. Louis, Missouri
Skeletal Muscle Dysfunction
Robert May, M.D.
Atlanta, Georgia
Growth Disturbances and Their Therapy
Richard Fine, M.D.
New York, New York
Overview of Renal Bone Disease
Steven Teitelbaum, M.D.
St. Louis, Missouri
Hemostatic Defects in Uremia
Heinrich Joist, M.D.
St. Louis, Missouri

8:45 a.m. LECTURES
IgA Nephropathy
Professor Giuseppe D'Amico
Milan, Italy
Therapy of Hyponatremia
Robert Narins, M.D.
Detroit, Michigan
Toxicologic and Substance Abuse Emergencies
James Winchester, M.D.
Washington, D.C.

9:15 a.m. SYMPOSIUM
MINORITIES, HYPERTENSION AND RENAL DISEASE
Chairman: Janice Douglas, M.D.
Cleveland, Ohio
Racial Differences in Hypertension in End-Stage Renal Disease: Data from the USRDS
Lawrence Agodoa, M.D.
Camille Jones, M.D., M.P.H.
Bethesda, Maryland
Ion Transport Defects in Black and White Hypertension
Richard Cooper, M.D.
Maywood, Illinois
Racial Differences in Cardiovascular Reactivity
Norman Anderson, Ph.D.
Durham, North Carolina
Choice of Antihypertensive Agents in Different Ethnic Groups
Jackson Wright, M.D., Ph.D.
Cleveland, Ohio

12:00 p.m. LUNCH

1:00 p.m. SYMPOSIUM
NATURAL HISTORY OF THE CHRONIC TRANSPLANT PATIENT
Roy First, M.D.
Cincinnati, Ohio

2:00 - 3:45 p.m. SYMPOSIUM
SEPSIS AND THE KIDNEY
Chairman: Stuart Linas, M.D.
Denver, Colorado
Renal Vasoconstrictive Substances in Sepsis
Kamal Badr, M.D.
Nashville, Tennessee
Determinants of Aminoglycoside Nephrotoxicity
Richard Zager, M.D.
Seattle, Washington
Anti-Endotoxin Antibodies in the Treatment of Sepsis
Elizabeth Ziegler, M.D.
San Diego, California

Systemic Hemodynamic Abnormalities of Sepsis and Vasoactive Therapy
Charles Natanson, M.D.
Bethesda, Maryland

3:45 p.m. Renal Biopsy Workshop: The Kidney in Infectious Diseases
Sharon Adler, M.D.
Torrance, California
Arthur Cohen, M.D.
Torrance, California
Cynthia Nast, M.D.
Torrance, California

7:00-9:00 a.m. SYMPOSIUM
SPECIAL CONSIDERATIONS IN HYPERTENSION TREATMENT
(Symposium Sponsored by Marion Merrell Dow, Inc.)
Chairman: Murray Epstein, M.D.
Miami, Florida

Antihypertensive Therapy in Diabetic Nephropathy
Murray Epstein, M.D.
Miami, Florida

Antihypertensive Therapy in Chronic Progressive Renal Disease
Lawrence Hunsicker, M.D.
Iowa City, Iowa

Hypertension Therapy in the Elderly
John Flack, M.D.
Minneapolis, Minnesota

PATHOLOGY CLUB
CYCLOSPORINE NEPHROTOXICITY
Moderator: Vivette D’Agati, M.D.
New York, New York

7:20 a.m. Morphologic Features of Cyclosporine Nephrotoxicity
Michael Mihatsch, M.D.
Basel, Switzerland

7:45 a.m. Pathogenesis of Cyclosporine Nephrotoxicity
Giuseppe Remuzzi, M.D.
Bergamo, Italy

8:10 a.m. Clinical Update
William Bennett, M.D.
Portland, Oregon

8:35 - 9:00 a.m. Discussion

7:30 a.m. National Kidney Foundation Poster Session

1:30 - 3:30 p.m. AMERICAN SOCIETY OF NEPHROLOGY/NATIONAL KIDNEY FOUNDATION SYMPOSIA

ICU NEPHROLOGY
Chairman: H. David Humes, M.D.
Ann Arbor, Michigan

Enhancing Recovery of Renal Function
H. David Humes, M.D.
Ann Arbor, MI
Blood Pressure Support, Dopamine and Renal Function
Gerald F. DiBona, M.D.
Iowa City, Iowa
Growth Hormone, Glutamine and Hyperalimentation
Thomas W. Ziegler, M.D.
San Diego, CA
CAVH, CAVHD and Dialysis
Thomas Golper, M.D.
Louisville, Kentucky

COMPLICATIONS OF LONG-TERM TRANSPLANTATION
(Symposium Sponsored by Connaught Laboratories, Inc.)
Chairman: J. Harold Helder, M.D.
Nashville, Tennessee

Nonrenal Complications of Immunosuppression
Israel Penn, M.D.
Cincinnati, Ohio
Pathology of Chronic Rejection
Robert B. Colvin, M.D.
Boston, Massachusetts
Optimum Immunosuppression of Long-Term Transplant Patients
J. Harold Helder, M.D.
Nashville, Tennessee

6:30 p.m. Reception

7:30 p.m. NKF Celebration Banquet
(Tickets can be purchased at the registration desk)
Diagnosis and Treatment of Osteonecrosis
James Urbaniak, M.D.
Durham, North Carolina

1:30 - 3:30 p.m.

NATIONAL KIDNEY FOUNDATION SCIENTIFIC COUNCIL SYMPOSIA

VOIDING PROBLEMS IN THE PEDIATRIC PATIENT
(Council on Pediatric Nephrology and Urology Symposium)
Chairmen: John Foreman, M.D.
Richmond, Virginia
David Mininberg, M.D.
New York, New York

Developmental Aspects of Voiding
Barry Kogan, M.D.
San Francisco, California

Immaturity Syndromes of Voiding
- Dysfunctional Voiding
- Urodynamics
Howard Synder, M.D.
Philadelphia, Pennsylvania
David Bloom, M.D.
Ann Arbor, Michigan

Voiding Problems in Renal Transplant Patients
Curtis Sheldon, M.D.
Cincinnati, Ohio

MORBIDITY AND MORTALITY IN DIALYSIS PATIENTS - A PLAN FOR ACTION
(Council on Dialysis Symposium)
Chairman: Allen Nissenson, M.D.
Los Angeles, California

The Underprescribing of Dialysis in the United States - the NCDS Misunderstood
Frank Gotch, M.D.
San Francisco, California

Urea Kinetic Modelling Simplified
John Daugirdas, M.D.
Chicago, Illinois

Underdelivery of Dialysis-Patient Noncompliance
Thomas Parker, M.D.
Dallas, Texas

Educating Nephrologists and Fellows in Dialysis - A Vital Imperative
Nathan Levin, M.D.
New York, New York