

Medical Bulletin

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Summer, 1982



Class of 1982



Summer, 1982

MINNESOTA MEDICAL FOUNDATION

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Letter to the Editor

Dear Editor,

Among the teachers that I remember from my days as a student at the University of Minnesota Medical School, Maurice Visscher, about whom you wrote so well in your Spring, 1982, issue, was certainly one of that rare breed: an inspiring scientist, a devoted humanist, and an understanding man.

In 1947, I was fortunate enough to be accepted as a research assistant by Dr. Visscher, to work on a project on the genesis of pulmonary edema following vagotomy. . . . Despite my somewhat

ambiguous status as a medical student, he treated me as a colleague. From his example I learned humility, kindness, the excitement of scientific research, and the satisfaction of investigative rigor. Whatever success I have had since then I owe in good part to a few outstanding teachers, and Maurice Visscher was a giant among them.

James M.A. Weiss, M.D., M.P.H.,
FACP, FRCPsych
Professor and Chairman,
Department of Psychiatry
University of Missouri-Columbia

Class of 1982

On the brilliant afternoon of June 4, before a cheering, clapping audience of relatives and friends in Northrop Auditorium, 271 young men and women accepted the hood of a Doctor of Medicine from the deans of the University of Minnesota Medical School.

Dean N. L. Gault welcomed the graduates, the audience, the faculty, and introduced the Class of 1932 (see article, p. 10), on campus for their 50th reunion. Associate Dean H. Mead Cavert announced the many awards and honors won by members of the graduating class:

— The Medical Student Achievement Awards (see article, p. 24);

— The Ruth Boynton Memorial Scholarship, given for academic excellence, to Alyce M. Hamilton, of Many Farms, Arizona;

— The Nicollet Clinic Founders' Scholarship, given for academic excellence, to Susan K. Nelson of Red Wing, and Jane Nolting-Brown, of Kenosha, Wisconsin;

— The New York Life Scholarship, given for academic excellence, to Wayne H. Jarvis, of Owatonna, and Rolf N. Sigford, of Minneapolis;

— The American Cancer Society Scholarship, given for interest in cancer research, to Elaine A. Barrios, of Sacramento, California;

— The Southern Minnesota Medical Association Outstanding Senior Award to Craig A. Walden, of Garvin;

— The J. Thomas Livermore Memorial Award for outstanding research in hematology, won in 1981 by Candy S. Abramson, Duluth, and in 1982 by Marie E. Steiner, Rochester;

— The Janet M. Glasgow Memorial Award, given to the outstanding women in the graduating class by the American Medical Women's Association, Inc., to Candy S. Abramson Duluth; Susan D. Adamson, Thief River Falls; Dana L. Battles, Minneapolis; Kathleen S. Farah,



Prior Lake; Karen M. Gosen, Little Falls; Therese M. Kitt, Minneapolis; Hollis E. Krug, Minneapolis; Diane L. Liljegren, Duluth; Elizabeth P. Loken-Egdahl, Ada; Susan K. Nelson, Jane Nolting-Brown; Elizabeth R. Seaquist, Minneapolis; Valerie K. Ulstad, Edina; Deborah Ann Wheeler, Virginia; and Roberta L. Zimmerman, Hibbing;

— The AEI Honor Award, to the senior woman medical student who best exemplifies excellence in clinical performance, community service, scholarship, and leadership, to Deborah Ann Wheeler.

Anthony Bechik, President of the Minnesota Medical Foundation, presented two awards: to Alyce M. Hamilton the Gail Parker Eady Memorial Award, given in memory of the late Dr. Eady, a 1980 graduate; and to Peter J. Dehnel, of Minneapolis, the 1982 Undergraduate Research Award. The Gail Parker Eady Award is given annually to the minority student who best exemplifies the late Dr. Eady's ideal of service to her fellow students, and the recipient is chosen by fellow students.

The Undergraduate Research Award was won by Dr. Dehnel for his paper, "Alterations in Glycosaminoglycan Metabolism in Puromycin-Aminonucleoside-induced Nephrotic Syndrome."

Graduating members of the Medical Student Council included Lucinda J. Conroy, Minneapolis, President; Theresa M. Thorn, Northfield, Parliamentarian (Dr. Thorn served on the Medical Student Council for three of her four years); Stuart J. Fischbein, St. Louis

Park; Scott J. O'Connor, Duluth; and Valerie K. Ulstad.

Dr. O'Connor and Dr. Ulstad spoke for the class of '82. Dr. Ulstad reminded her classmates of the stages in their development as physicians: "... the first baby you delivered ... the first patients who shared their fear with you and treated you as their doctor" Dr. O'Connor looked ahead, to a lifetime of learning: "We must continue to be students of medicine," he said, and reminded his classmates of the need for humility.

Erwin L. Goldfine, Duluth, Regent of the University, conferred degrees, and graduates were hooded, congratulated, and sometimes hugged by W. Albert Sullivan, Jr., M.D., Associate Dean of the Medical School; Pearl P. Rosenberg, Ph.D., Assistant Dean; James H. House, M.D., Professor of Orthopaedic Surgery; and Ronald Soltis, M.D., Assistant Professor of Medicine.

In a charming departure from the program, Regents' Professor of Astronomy Edward P. Ney was called to the stage to hood his daughter, Dr. Judith A. Ney. The new doctors were presented with wallet-sized copies of their diplomas by the Minnesota Medical Foundation.

Slightly more than 25% of the Class of '82 are women, and the proportion of women in the Medical School is rising; 35% of current medical students are women. There are no marked distinctions between men's and women's choice of specialty.

Most University of Minnesota Medical



MMF President Bechik congratulates, left, Dr. Hamilton, and, right, Dr. Dehnel.

School graduates remain in the state. Will the practice of medicine in Minnesota be changed, when a quarter of the state's doctors are women? It is too soon to say, but Assistant Dean Pearl Rosenberg says, "On the evidence, women are more interested in community concerns. . . . As a consequence, we may be seeing broader, more holistic health care."

"A Sense of Humor"

Commencement speaker Norman Shumway, M.D., Ph.D., Professor and Head of the Department of Cardiovascular Surgery at Stanford University School of Medicine, urged the new doctors to preserve their sense of humor. "Medicine is one of the great exciting professions," he said. "Good judgment comes from experience, but experience comes from bad judgment. . . . Be not merely competitive; move the practice of medicine to new heights."

Dr. Shumway, noted cardiac transplant surgeon (see article on p. 21), is a distinguished alumnus of the University. After receiving his M.D. from Vanderbilt, he came to Minnesota for his internship and residency and also earned a Ph.D. in cardiovascular physiology.

At the end of the formal program, the audience sat in respectful silence while Dean Sullivan administered the Oath for New Physicians. The organist, Assistant Professor of Medicine Wesley Miller, played a triumphant recessional and the graduates burst into the sunlight of the Northrop Mall and the world of medicine.

Here are the graduates' names, home towns, undergraduate colleges, and places and types of residencies:

ABRAM, LEON J.

Duluth
U of M/Duluth
St. Joseph's Hospital
Denver
Surgery

ABRAMSON, CANDY S.

Duluth
U of M
Barnes Hospital
St. Louis
Internal Medicine

ADAMS, JEFFREY L.

Eveleth
Hamline
Duluth Family Practice Res.
Family Practice

ADAMSON, SUSAN D.

Thief River Falls
Bemidji State
U of M/Methodist Hospitals
Family Practice

ADLIN, MARILYN S.

Minneapolis
U of M
Hennepin County Medical Center
Family Practice

ANDERSON, BLAIR M.

Bloomington
U of M
Hennepin County Medical Center
Internal Medicine

ARNEY, JOEL W.

LaCrescent
U of Wisconsin/LaCrosse
U of M Hospitals
Anesthesiology

ASHPOLE, DAVID K.

Le Sueur
U of M
SW Michigan Area Health Ed.
Kalamazoo, MI
Internal Medicine

AUTREY, ALAN W.

St. Cloud
St. John's
Hennepin County Medical Center
Family Practice

BANASZAK, LLOYD J.

Wayzata
U of M/Morris
Hennepin County Medical Center
Family Practice

BANGSTON, BRADLEY R.

Hopkins
U of M
U of M Hospitals
Anesthesiology

BANNER, EDWARD A.

Rochester
Harvard
U of Texas Affiliated Hospitals
Houston
Anesthesiology

BARNES, MATTHEW J.

Aurora
Gustavus Adolphus
U of M/North Memorial Hospitals
Family Practice

BARRIOS, ELAINE A.

Sacramento, CA
U of California/Davis
Valley Medical Center
Fresno
Pediatrics

BATTLES, DANA L.

Minneapolis
U of M
U of Washington Affiliated Hospitals
Seattle
Internal Medicine

BELLVILLE, JOHN K.

Minneapolis
U of M
Menninger Foundation
Topeka, KS
Psychiatry

BERG, JOHN C.

Stillwater
U of M
Fitzsimmons Army Center
Aurora, CO
Internal Medicine

BERG, JONATHON H.

Albert Lea
St. Olaf
Saginaw Cooperative Hospital
Saginaw, MI
Family Practice

BERGMAN, THOMAS A.

Duluth
Princeton
U of M Hospitals
Surgery

BERGSTEIN, JACK M.

Minneapolis
U of M
U of M Hospitals
Surgery

BIROS, MICHELLE H.

Minneapolis
College of St. Catherine
U of Cincinnati Medical Center
Ohio
Flexible

BONGARD, BONNIE F.
St. Louis Park
Northwestern
Butterworth Hospital
Grand Rapids, MI
Flexible

BONNER, TIMOTHY C.
Grand Rapids
St. John's
Hennepin County Medical Center
Flexible

BREZNIK, JOHN D.
Edina
U of M
St. Mary's Hospital
Grand Rapids, MI
Family Practice

BRIDEN, MARIE E.
Edina
Mt. Holyoke
U of M Hospitals
Dermatology

BRYAN, ROY G.
Mahtomedi
Coe College
McKenna Hospital
Sioux Falls, SD
Family Practice

CAHILL, TERENCE P.
Milwaukee
Drake
Naval Regional Medical Center
Charleston, SC
Family Practice

CARLSON, MARK C.
Aitkin
Gustavus Adolphus
U of M/Bethesda Hospitals
Family Practice

CASTRO, DANIEL B.
Los Angeles
Stanford
LA County/Harbor-UCLA
Medical Center, Los Angeles
Family Practice

CEYNOWA, TIMOTHY P.
Perham
St. John's
St. Paul-Ramsey Medical Center
Family Practice

CHANG, EDWIN M.
Minneapolis
U of M
Ohio State U Hospitals,
Columbus, OH
Neurosurgery

CONROY, LUCINDA J.
Minneapolis
Stanford
U of M Hospitals
Internal Medicine

CORREA, RONALD J.
Torrance, CA
California State U/Los Angeles
Western Medical Center
Santa Ana, CA
Family Practice

COUSINS, RANDY J.
Minneapolis
U of M
U of M/North Memorial Hospitals
Family Practice

COWAN, CHRISTOPHER L.
Apple Valley
U of M
Letterman Army Medical Center
San Francisco
Radiology

CRAGG, ANDREW H.
St. Paul
St. John's
U of M Hospitals
Radiology

DAHL, DAVID C.
Minneapolis
St. Olaf
Hennepin County Medical Center
Internal Medicine

DALVE, RICHARD D.
Sacramento
U of CA/Davis
Good Samaritan Hospital
Milwaukee
Family Practice

DAVIS, DAVID A.
Minneapolis
Macalester
VA Wadsworth Medical Center
Los Angeles
Internal Medicine

DEHNEL, PETER J.
Bloomington
U of M
U of M Hospitals
Pediatrics

DERAUF, BRUCE J.
St. Paul
St. Olaf
Mary Imogene Bassett Hospital
Cooperstown, NY
Flexible

DICK, STANLEY P.
Mountain Lake
Augsburg
U of South Dakota Affiliated
Hospitals, Yankton, SD
Surgery

DOSLAND, THOMAS A.
New Ulm
St. Olaf
Hennepin County Medical Center
Internal Medicine

DOUGHERTY, LEAH E.
Benson
St. Olaf
Taking year off

DRAKE, D. GORDON
Minneapolis
Notre Dame
U of M Hospitals
Diagnostic Radiology

DREVLLOW, LAUREL E.
Twin Valley
U of M
Abbott-Northwestern Hospital
Internal Medicine

DUGINSKI, THOMAS M.
Moorhead
Moorhead State
Wilford Hall Medical Center
San Antonio, TX
Internal Medicine

ECKMANN, DAVID R.
Burnsville
U of M/Morris
U of M Hospitals
Obstetrics/Gynecology

ENDRES, STEPHEN M.
Austin
St. Mary's
Mayo Graduate School of Medicine
Rochester
Anesthesiology

ERICKSON, PAUL F.
Minneapolis
Macalester
Duluth Family Practice Res.
Family Practice

ERICKSON, PETER J.
Roseville
U of M
Sioux Falls Family Practice Res.
South Dakota
Family Practice

ERIE, JAY C.
Crookston
St. Olaf
Hennepin County Medical Center
Flexible

FAHEY, JOSEPH B.
St. Paul
College of St. Thomas
Medical College of Wisconsin
Milwaukee
Anesthesiology

FARAH, KATHLEEN S.
Prior Lake
College of St. Scholastica
St. Paul-Ramsey Medical Center
Family Practice

FILIPOVICH, JOHN T.
St. Paul
U of M
U of M/St. John's
Family Practice

FISCHBEIN, STUART J.
St. Louis Park
U of M
Cedars-Sinai Medical Center
Los Angeles
Obstetrics/Gynecology

FISCHER, MARK D.
St. Paul
College of St. Thomas
Tucson Hospitals
Arizona
Flexible

FLEMING, RICHARD H.
Richfield
St. John's
U of M/St. John's Hospitals
Family Practice

FLETCHER, DEBORAH G.
Minneapolis
U of M
Hennepin County Medical Center
Internal Medicine

FOX, WILLIAM D.
Duluth
U of M/Duluth
U of M/Bethesda Hospitals
Family Practice

FRANZEL, JAMES R.
Mound
St. Olaf
Hennepin County Medical Center
Family Practice

FREEMAN, JAMES P.
Little Falls
U of M
Hennepin County Medical Center
Internal Medicine

FREEMAN, RICHARD S.
St. Paul
Cornell U
Emanuel Hospital
Portland, OR
Flexible



FREUND, JOSEPH M.
Brooklyn Center
U of M/Morris
St. Joseph Mercy Hospital
Mason City, IA
Family Practice

GARDNER, ROBERT N.
Minneapolis
U of M
Iowa Lutheran Hospital
Des Moines
Family Practice

GAUTHIER, ROBERT L.
Rochester
Gustavus Adolphus
Medical Center Hospital of
Vermont, Burlington, VT
Surgery

GILBERTSON, CRAIG L.
Duluth
Gustavus Adolphus
Duluth Family Practice Res.
Family Practice

GILBERTSON, JEFFREY J.
St. Paul
Dartmouth
U of Utah Affiliated Hospitals
Salt Lake City
Surgery

GILBERTSON, REID A.
Bloomington
Bemidji State
U of M/Bethesda Hospitals
Family Practice

GLASS, ALAN I.
Rochester
U of M
University of Cincinnati Medical
Center, Ohio
Pediatrics

GOLDBLATT, DANIEL M.
St. Louis Park
Carleton
Taking year off

GOLDISH, GARY D.
St. Paul
U of M
Butterworth Hospital
Grand Rapids, MI
Flexible

GONZALES, FELIX E.
Minturn, CO
U of New Mexico
U of Arizona Affiliated Hospitals
Tucson
Surgery

GOODMAN, AVIEL L.
St. Paul
Swarthmore
Institute of Living
Hartford, CT
Psychiatry

GOSEN, KAREN M.
Little Falls
Drake
Mayo Graduate School of
Medicine, Rochester
Internal Medicine

GRAYDEN, THOMAS J.
Excelsior
Arizona State
U of California/Davis Hospitals
Sacramento
Psychiatry

GREEN, EDDIE L.
Belzoni, MS
Millsaps College
U of M Hospitals
Internal Medicine

GRIEBIE, MATTHEW S.
Hutchinson
St. Olaf
Hennepin County Medical Center
Surgery

GROVES, NANCY L.
Granite Falls
Hamline
U of M Hospitals
Anesthesiology

GUADARRAMA, MICHAEL A.
Naco, AZ
U of California/San Diego
U of California/Irvine Affiliated
Hospitals, Orange, CA
Family Practice

HAATVEDT, CY B.
Fergus Falls
College of St. Teresa
Youngstown Hospitals
Ohio
Flexible

HAGEDORN, LYNN A.
St. Cloud
St. Cloud State
St. Paul-Ramsey Medical Center
Obstetrics/Gynecology

HALVERSON, LYNNE M.
Madelia
Hamline
U of North Dakota Hospitals
Grand Forks
Family Practice

HAMILTON, ALYCE M.
Many Farms, AZ
Macalester
Abbott-Northwestern Hospital
Internal Medicine

HANSON, PAMELA J.
Minneapolis
Carleton
U of Cincinnati Medical Center
Family Practice

HARMON, RONALD A.
Sacramento
California State
U of California/Davis Affiliated
Hospitals, Sacramento
Surgery

HART, PATRICIA A.
St. Paul
Radcliffe
McGaw Medical Center
Chicago
Internal Medicine

HAVEL, PAUL E.
Minneapolis
U of M
Hennepin County Medical Cen
Flexible

HAYNES, GREGORY D.
La Puente, CA
California State College
Taking year off

HEMPEL, STEPHEN L.
Brooklyn Center
St. John's
U of Michigan Affiliated Hospit
Ann Arbor, MI
Internal Medicine

HERMANSON, BRUCE A.
Richfield
St. Olaf
U of Pittsburgh Affiliated Hospit
Psychiatry

HESSE, JEANNE M.
Staples
Concordia
St. Paul-Ramsey Medical Cente
Family Practice

HILL, RICHARD S.
Minneapolis
Northwestern
Albany Medical Center
New York
Otolaryngology

HOGAN, TIMOTHY M.
St. Paul
St. John's
Sioux Falls Family Practice Res
South Dakota
Family Practice

HOMAN, HERBERT A.
South St. Paul
College of St. Thomas
U of M/Bethesda Hospitals
Family Practice

HOWE, JOHN B.
Crystal
U of M/Duluth
St. Joseph's Hospital
Marshfield, WI
Flexible





Norman Shumway addresses the graduates.

HUDRLIK, TAMARA L.
Owatonna
U of M
U of M Hospitals
Obstetrics/Gynecology

HURD, RANDALL C.
Minneapolis
Carleton
U of M/St. Mary's Hospitals
Family Practice

ILIKA, KAREN L.
Bloomington
St. Olaf
Madigan Army Medical Center
Seattle
Obstetrics/Gynecology

INMAN, STEVEN V.
Minneapolis
U of M
U of Colorado Affiliated Hospitals
Denver
Pediatrics

JANES, PETER C.
Rochester
U of M
Presbyterian/St. Luke's Hospital
Denver
Flexible

JARVIS, WAYNE H.
Owatonna
U of M
U of Kentucky Medical Center
Lexington, KY
Surgery

JEDDELOH, NEIL P.
St. Paul
Gustavus Adolphus
U of M/North Memorial Hospitals
Family Practice

JENSEN, JOEL B.
Minneapolis
Dordt College
U of M/North Memorial Hospitals
Family Practice

JOHNSON, ALBERT D.
Virginia
U of M
U of California-San Diego Affiliated
Hospitals
Surgery

JOHNSON, BRADLEY S.
Brooklyn Park
U of M
St. Paul-Ramsey Medical Center
Family Practice

JOHNSON, GARNER P.
Rochester
Brown
U of Chicago Clinics
Surgery

JOHNSON, GREGORY J.
Rochester
U of M
Presbyterian-St. Luke's Hospital
Denver
Flexible

JOHNSON, JEAN A.
St. Paul
Reed College
Michigan State U Associated
Hospitals, East Lansing, MI
Internal Medicine

JOHNSON, STUART B.
Bloomington
Bethel
U of M Hospitals
Internal Medicine

JOHNSON, VICTORIA A.
Deephaven
St. Olaf
Dartmouth/Hitchcock Medical
Center, Hanover, NH
Internal Medicine

KAIHOI, DEAN A.
Minneapolis
Bethel College
U of M/Methodist Hospitals
Family Practice

KARNES, WILLIAM E.
Rochester
U of M
U of M Hospitals
Internal Medicine

KEATING, MICHAEL R.
Rochester
Colorado College
Mayo Graduate School of
Medicine, Rochester
Internal Medicine

KEUL, THOMAS J.
Duluth
U of M
U of M Hospitals
Psychiatry

KILBURG, ELIZABETH A.
Minneapolis
U of Wisconsin
U of M Hospitals
Obstetrics/Gynecology

KITT, THERESE M.
Minneapolis
Augsburg
U of Iowa Hospitals
Iowa City
Internal Medicine

KOLARS, JOSEPH C.
Edina
College of St. Thomas
U of California-San Diego
Affiliated Hospitals
Internal Medicine

KOSIAK, JOHN A.
Minneapolis
U of M
St. Paul-Ramsey Medical Center
Flexible

KRAMER, GEORGE H.
Excelsior
U of M
Mayo Graduate School of
Medicine, Rochester
Otolaryngology

KRAUSE, JAMES R.
Minneapolis
Carleton
St. Paul-Ramsey Medical Center
Obstetrics/Gynecology

KRUG, HOLLIS E.
Minneapolis
U of Northeast
U of M Hospitals
Internal Medicine

LANGE, DANNY B.
Harmony
Augsburg
Abbott-Northwestern Hospital
Internal Medicine

LANGER, MAREN L.
Minneapolis
Stanford
Taking year off

LANNON, CAROLE M.
Glen Ellyn, IL
Macalester
North Carolina Memorial
Hospital, Chapel Hill, NC
Flexible

LARSON, DAVID D.
Fridley
U of M
Mercy Hospital
San Diego, CA
Flexible

LEAVENWORTH, NANCY M. 5
Excelsior
Carleton
Hennepin County Medical Center
Flexible

LEONARD, THOMAS J.
St. Paul
St. John's
LaCrosse Lutheran Hospital
LaCrosse, WI
Internal Medicine

LEUKUMA, MARY A.
Excelsior
U of M
U of M Hospitals
Pediatrics

LILJEGREN, DIANE L.
Duluth
Carleton
U of M Hospitals
Family Practice

LINDQUIST, MARK D.
Moorhead
Concordia
Sioux Falls Family Practice Res.
South Dakota
Family Practice

LITWACK, ROBERT S.
Minneapolis
U of M
Maricopa County General Hospital
Phoenix
Internal Medicine

LOKEN-EGDAHL, ELIZABETH P.
Ada
St. Olaf
UCLA Neuropsychiatric Institute
Los Angeles
Psychiatry

LUDWIG, ANN M.
Cannon Falls
College of St. Catherine
McKenna Hospital
Sioux Falls, SD
Internal Medicine

LUNDSTEN, THOMAS L.
Bemidji
U of M/Duluth
U of M/St. John's Hospitals
Family Practice

LYSNE, DWIGHT H.
Moorhead
Moorhead State
U of California-San Diego Affiliated
Hospitals
Surgery



Class president Cindy Conroy.

MacDONALD, SUZANNE
St. Paul
U of Wisconsin
Abbott-Northwestern Hospital
Internal Medicine

MacDUFF, MARIA I.
Coleta, CA
U of Pittsburgh
U of Washington Affiliated
Hospitals, Seattle
Anesthesiology

MacLEAN, DOUGLAS G.
Minneapolis
U of M
U of M/St. Mary's Hospitals
Family Practice

MADDAUS, MICHAEL A.
Minneapolis
U of M
U of M Hospitals
Surgery

MADDY, MICHAEL M.
Duluth
Carleton
Hennepin County Medical Center
Internal Medicine

MALOTKY, RICHARD A.
Minnetonka
St. Olaf
St. Michael Hospital
Milwaukee
Family Practice

MANLOVE, JEFFREY C.
St. Paul
Carroll College
Mayo Graduate School of Medicine
Rochester
Otolaryngology

MANLOVE, STEPHEN P.
Eden Prairie
St. Olaf
U of Virginia Medical Center
Charlottesville, VA
Psychiatry

MAYER, ALAN D.
Rochester
U of M
U of Colorado Affiliated Hospitals
Ft. Collins, CO
Family Practice

McCONNELL, CAMERON
Wayzata
St. Olaf
U of M/Bethesda Hospitals
Family Practice

McCROSSAN, MARY C.
St. Paul
Macalester
U of M/North Memorial Hospitals
Family Practice

McDONALD, DOUGLAS J.
Albert Lea
St. John's
Mayo Graduate School of Medicine
Rochester
Orthopaedic Surgery

McLELLAN, DANIEL S.
Minneapolis
St. Olaf
U of M Hospitals
Pediatrics

MELCHER, GREGORY P.
Buffalo
U of M
Wilford Hall Medical Center
San Antonio, TX
Internal Medicine



Graduates Mark Fisher, left, Cindy Conroy, and Tom Dosland with Dean Gault at the Dean's reception.

MELLER, WILLIAM H.
Edina
Carleton
U of Iowa Hospitals
Iowa City
Psychiatry

MEURER, ALLEN G.
Austin
U of M/Duluth
Mayo Graduate School of Medicine
Rochester
Internal Medicine

MEYERS, BRYAN D.
Virginia
U of M/Duluth
Marshfield-U of Wisconsin Affiliated
Hospitals
Surgery

MICKMAN, JAMES K.
Fridley
U of M
Hennepin County Medical Center
Internal Medicine

MIETTUNEN, JAMES B.
Hibbing
Concordia
Mayo Graduate School of Medicine
Rochester
Otolaryngology

MONTBRIAND, JOEL R.
White Bear Lake
Hamline
Hennepin County Medical Center
Internal Medicine

MOOS, MALCOLM C.
St. Paul
Stanford
U of M Hospitals
Pathology

MORIN, WILLIAM D.
White Bear Lake
U of M
Naval Regional Medical Center
San Diego
Surgery

MROSAK, DANIEL R.
Minneapolis
U of M
U of Missouri-Truman Medical
Center, Kansas City, MO
Surgery

MUELLER, MICHAEL L.
Shoreview
U of M
William A. Shands Hospital &
Clinic, Gainesville, FL
Anesthesiology

MULVAHILL, AMY S.
Golden Valley
Tufts
U of M Hospitals
Internal Medicine

MURN, MELANIE C.
St. Cloud
U of M
U of M Hospitals
Obstetrics/Gynecology

NAWROCKI, JOSEPH W.
Trimont
Southwest State
Sioux Falls Family Practice Res.
South Dakota
Family Practice

NELSON, KAREN L.
Spicer
Augsburg
U of M Hospitals
Psychiatry

NELSON, SUSAN K.
Red Wing
St. Olaf
U of M Hospitals
Psychiatry

NERENBERG, LEX A.
Minneapolis
U of M
Hennepin County Medical Center
Internal Medicine

NEUMANN, MARY P.
Plymouth
Gustavus Adolphus
U of M Hospitals
Pathology

NEY, JUDITH A.
Minneapolis
U of M
Mayo Graduate School of
Medicine, Rochester
Obstetrics/Gynecology

NICOSKI, RICKY A.
Sartell
St. John's
Wausau Hospital Center-U of
Wisconsin Affiliated Hospitals
Wausau, WI
Family Practice

NIELSON, SKOTT N.
Farmington
Gustavus Adolphus
Maricopa County General Hos
Phoenix
Flexible

NISSWANDT, ERIC A.
Knife River
U of M/Duluth
SW Michigan Area Health Ed.
Kalamazoo, MI
Flexible

NOLTING-BROWN, JANE
Kenosha, WI
Valparaiso
U of M/North Memorial Hospi
Family Practice

NOMELAND, DAVID L.
Osakis
U of M/Duluth
Blodgett Memorial Medical Center
Grand Rapids, MI
Obstetrics/Gynecology

NOONAN, DANIEL E.
Robbinsdale
College of St. Thomas
U of M/North Memorial Hospitals
Family Practice

NORGARD, RANDALL J.
Duluth
College of St. Scholastica
Veterans Administration Hospital
Minneapolis
Orthopaedic Surgery

NORMAN, MATTHEW E.
Minneapolis
College of St. Thomas
Hennepin County Medical Center
Flexible

O'BRIEN, WILLIAM A.
Edina
MIT
VA Wadsworth Medical Center
Los Angeles
Internal Medicine

O'CONNOR, SCOTT J.
Duluth
St. Olaf
Hennepin County Medical Center
Surgery

OGLE, KATHLEEN M.
Minneapolis
U of M
U of M Hospitals
Internal Medicine

OLMANSON, DOUGLAS V.
St. Peter
U of M
U of M/St. Mary's Hospitals
Family Practice

OLSON, MARY L.
Madison
St. Olaf
U of M/St. Mary's Hospitals
Family Practice

OLSON, RUSSELL J.
Cokato
Mankato State
U of M/Methodist Hospitals
Family Practice

OSTLUND, MARK L.
Minneapolis
U of M
U of Washington Affiliated
Hospitals, Seattle
Internal Medicine

PAST, LARRY R.
Minneapolis
U of M
Abbott-Northwestern Hospital
Internal Medicine

PAULSON, GARY L.
Glenwood
U of M/Morris
Hennepin County Medical Center
Surgery

PAWLIK, MICHAEL J.
Minneapolis
U of M
U of M Hospitals
Internal Medicine

PEARSON, GLENN E.
Minneapolis
U of M
Presbyterian Denver Hospital
Denver
Internal Medicine

PENROSE-MILLER, ALICE P.
Minneapolis
Queens U
St. Joseph Mercy Hospital
Ann Arbor, MI
Internal Medicine

PETERSON, BRADLEY J.
Rushford
St. Olaf
U of M Hospitals
Anesthesiology

PETERSON, DEBRA G.
Edina
Luther College
Sioux Falls Family Practice Center
South Dakota
Family Practice

PETERSON, MARGIE H.
Cannon Falls
U of Wisconsin/River Falls
Eau Claire Regional Consortium
Eau Claire, WI
Family Practice

PETERSON, TIMOTHY M.
Benson
U of M/Morris
Sioux Falls Family Practice Center
South Dakota
Family Practice

PAFF, JAMES A.
Columbia Heights
St. John's
Tripler Army Medical Center
Honolulu, HI
Flexible

PLUMMER, DAVID W.
Edina
St. Olaf
Hennepin County Medical Center
Flexible

POOLER, PETE A.
St. Louis Park
St. Olaf
U of M Hospitals
Internal Medicine

PRIMROSE, DAVID C.
Bloomington
Macalester
SUNY-Upstate Medical Center
Syracuse, NY
Surgery

QUADAY, JAMES W.
Blue Earth
U of M
Hennepin County Medical Center
Internal Medicine

REHBEIN, MICHAEL S.
Bloomington
Valparaiso
Travis AFB/David Grant Medical
Center, Fairfield, CA
Pediatrics

REMARK, RICHARD R.
Fertile
Concordia
U of New Mexico Affiliated Hospitals
Albuquerque
Internal Medicine

RENIER, HUGH P.
Duluth
U of M/Duluth
Duluth Family Practice Res.
Family Practice

RHOLL, KENNETH S.
Golden Valley
Gustavus Adolphus
Barnes Hospital/Washington U
Hospitals, St. Louis
Diagnostic Radiology

RICE, MARGARET I.
Minneapolis
U of Pennsylvania
U of M Hospitals
Internal Medicine

RINIKER, ROBERT P.
Minneapolis
U of Colorado
Hennepin County Medical Center
Internal Medicine

RITTS, GRAHAM D.
Rochester
Princeton
Mayo Graduate School of Medicine
Rochester
Orthopaedic Surgery



Val Ulstad addressed her classmates.

ROGIN, ROBYN L.
St. Louis Park
U of M
Emanuel Hospital
Portland, OR
Flexible

ROSENSTEIN, ALEXANDER D.
St. Louis Park
U of M
U of California-San Diego Affiliated
Hospitals
Orthopaedic Surgery

ROWE, SCOTT C.
Minneapolis
U of M
U of North Dakota Affiliated
Hospitals, Fargo, ND
Family Practice

SAKO, EDWARD Y.
St. Paul
U of M
U of M Hospitals
Surgery

SAMLASKA, CURT P.
Madelia
Mankato State
Tripler Army Medical Center
Honolulu, HI
Internal Medicine

SANDALL, PAUL G.
Minneapolis
U of Wisconsin/Madison
St. Paul-Ramsey Medical Center
Psychiatry

SCHMIDT, BRIAN E.
Fergus Falls
U of M
Abbott-Northwestern Hospital
Internal Medicine

SCHNEIDER, DAVID E.
Bloomington
U of M
Hennepin County Medical Center
Family Practice



As did Scott O'Connor.



Eivind Hoff, right, executive director of the Minnesota Medical Foundation, congratulates Peter Dehnel, winner of the MMF's Undergraduate Research Award.

SCHNELL, WILLIAM F.
Litchfield
Gustavus Adolphus
Medical College of Wisconsin
Affiliated Hospitals
Milwaukee
Orthopaedic Surgery

SCHULLER, ELDON M.
San Francisco
U of California/Davis
LA County/USC Medical Center
Los Angeles
Flexible

SCHULTZ, STEPHEN M.
Winona
St. Mary's
Rush-Presbyterian-St. Luke's
Hospital, Chicago
Internal Medicine

SEAQUIST, ELIZABETH A.
Minneapolis
Vassar
U of M Hospitals
Internal Medicine

SHANK, JUDITH F.
Minneapolis
U of Iowa
U of M Hospitals
Dermatology

SHENK, JOHN S.
Wayzata
Luther College
Hennepin County Medical Center
Surgery

SHOWERS, SIDNEY G.
Edina
Iowa State
U of M Hospitals
Pediatrics

SIELONI, BRUCE A.
West St. Paul
College of St. Thomas
U of Iowa Hospitals
Iowa City
Psychiatry

SIEMERS, ROSS F.
Richfield
St. John's
Marshfield/U of Wisconsin
Affiliated Hospitals
Internal Medicine

SIEVERT, WILLIAM S.
Minneapolis
U of M
St. Paul-Ramsey Medical Center
Family Practice

SIGFORD, ROLF N.
Minneapolis
U of M
Abbott-Northwestern Hospital
Internal Medicine

SIMONSON, JAY S.
Prior Lake
U of M
U of California Hospitals
San Francisco
Internal Medicine

SMITH, ANTHONY E.
Edina
U of M
Hennepin County Medical Center
Family Practice

SMYRK, THOMAS C.
Rochester
U of M
Mayo Graduate School of
Medicine, Rochester
Pathology

SORENSEN, DIANE L.
Albert Lea
U of M
Mayo Graduate School of
Medicine, Rochester
Internal Medicine

STAHL, THOMAS J.
Bloomington
U of M
U of M Hospitals
Surgery

STANGL, DOUGLAS V.
Claremont
Mankato State
Siouxland Medical Foundation
Sioux City, IA
Family Practice

STARZINSKI, DONALD T.
St. Paul
U of M
U of M Hospitals
Neurology

STAUB, DAVID B.
Minneapolis
U of M
Mission Hospital
Tandala, Zaire
Tropical Medicine

STEIN, STEVEN D.
St. Paul
U of M
Abbott-Northwestern Hospital
Internal Medicine

STEINER, MARIE E.
Rochester
St. Olaf
U of M Hospitals
Pediatrics

STOCKS, JEANNE M.
Minneapolis
St. Olaf
Abbott-Northwestern Hospital
Internal Medicine

STONE, SARAH L.
Lake City
Michigan Technical U
U of Oregon Health Sciences
Center, Portland, OR
Internal Medicine

STRAND, MARILYN H.
Morris
U of M/Morris
St. Paul-Ramsey Medical Center
Pathology

SVOBODNY, CYNTHIA LARSON
Buffalo
Gustavus Adolphus
U of M Hospitals
Internal Medicine

SWANSON, TIMOTHY V.
Minneapolis
U of M
U of M Hospitals
Pediatrics

SYVERSON, DALE L.
Cannon Falls
U of M
U of Oregon Health Sciences
Center, Portland, OR
Surgery

TALBERT, KENNETH E.
St. Paul
Grinnell
Rush-Presbyterian-St. Luke's
Hospital, Chicago
Ophthalmology

THOMAS, SCOTT D.
Rochester
U of M/Duluth
Presbyterian-St. Luke's Hospital
Denver
Flexible

THORN, THERESA M.
Northfield
U of M
U of Oregon Health Sciences Cen
Portland, OR
Internal Medicine

THORSGARD, KNUTE E.
Thief River Falls
Concordia
U of North Dakota Affiliated
Hospitals, Grand Forks, ND
Family Practice

TILBURY, RALPH T.
Minneapolis
U of M
Hennepin County Medical Cent
Internal Medicine

TOSTESON, DAVID J.
Minneapolis
U of M
U of M/Methodist Hospitals
Family Practice

TRUDE, TIMOTHY E.
Duluth
Bethel College
U of M/Bethesda Hospitals
Family Practice

ULSTAD, VALERIE K.
Edina
St. Olaf
U of M Hospitals
Internal Medicine

UNSER, STANLEY H.
Oak Park Heights
U of M
Letterman Army Medical Cente
San Francisco
Flexible

VECHELL, DANIEL S.
Chisholm
Augsburg
Brooke Army Medical Center
Denver
Radiology

VON RUEDEN, KURT W.
St. Paul
U of M
Rush-Presbyterian-St. Luke's
Hospital, Chicago
Orthopaedic Surgery

VOSS, STEVEN H.
Minnesota Lake
St. John's
U of M/Bethesda Hospitals
Family Practice

WALDEN, CRAIG A.
Garvin
U of M/Morris
Strong Memorial Hospital
Rochester, NY
Internal Medicine

WALDRON, JOHN B.
Minneapolis
U of M
St. Paul-Ramsey Medical Center
Family Practice

WALKUP, JOHN T.
Minneapolis
U of M
Yale-New Haven Medical Center
New Haven, CT
Psychiatry

WALLER, STEVEN P.
Minneapolis
U of M
UCLA Hospitals and Clinics
Los Angeles
Pediatrics

WALSH, JOHN J.
Duluth
St. Mary's
St. Francis Medical Center
LaCrosse, WI
Family Practice

WEBER, JAN C.
Isle
Judson College
U of M Hospitals
Neurology

WEINSTOCK, HENRY
Minneapolis
U of M
San Jose Hospital and Health Center
San Jose, CA
Family Practice

WELD, JUDY L.
Minnetonka
U of M/Duluth
VA Medical Center
Martinez, CA
Internal Medicine

WEXLER, DEBORAH L.
Minneapolis
U of M
Eau Claire Regional Consortium
Eau Claire, WI
Family Practice

WEXLER, MICHAEL R.
St. Louis Park
U of M
U of M Hospitals
Pediatrics

WHEELER, DEBORAH ANN P.
Virginia
U of M
U of Michigan Affiliated Hospitals
Ann Arbor, MI
Anesthesiology

WIECK, MICHAEL J.
Westbrook
Georgetown
UCLA-San Fernando Valley Hospitals
Los Angeles
Internal Medicine

WILKOWSKI, MICHAEL J.
Perham
Carleton
U of Michigan Affiliated Hospitals
Ann Arbor, MI
Internal Medicine

WILLERSCHIEDT, ANTON B.
St. Paul
College of St. Thomas
Hennepin County Medical Center
Flexible

WILLSON, STUART L.
Minneapolis
U of Wisconsin
LA County/USC Medical Center
Los Angeles
Internal Medicine

WOLTER, TIMOTHY J.
Minneapolis
Augsburg
Sioux Falls Family Practice Center
South Dakota
Family Practice

WOODWORTH, RANDON B.
Winona
Lawrence
U of M/St. Mary's Hospitals
Family Practice

WORKMAN, CHARLES M.
St. Paul
U of M
U of M/St. John's Hospitals
Family Practice

ZIMMERMAN, ROBERTA L.
Hibbing
College of St. Scholastica
United Hospitals
St. Paul
Pathology

Note: For all those who counted names and found us one short: Dr. Richard Robinson, currently serving his residency at Hurley Medical Center, Flint, MI, received his diploma in June although he was listed as a member of the Class of '81 in the Bulletin for Summer, 1981.



From left, Jim Boulger, associate dean of UMD School of Medicine, with graduates Tom Keul, Eric Nisswandt, and Brad Johnson (holding his daughter Lu) and UMD Dean Paul Royce. All these graduates are UMD alumni.

Class of 1932

University of Minnesota Medical School
50th Anniversary Reunion
June 3, 1982



Front, left to right: Elizabeth Conforth, Eva Shaperman Gordon, Aileen Petri. Rear, left to right: Reinhardt Schmidtke, Philip Gordon, Reuben Berman, Kenneth Olson, Russell Sather, Wallace Merritt, Earl Ellis, Cyrus Erickson, Albert Ritt.

Members of the Class of 1932, holding their 50th reunion, were honored guests at Commencement festivities. The '32 graduates attended their own Reunion Dinner on June 3 at the Minneapolis Club; they toured the Health Sciences Center and met again for lunch on June 4; and the class was introduced by Medical School Dean N. L. Gault as part of the 1982 graduation program.

Co-chairmen Reuben Berman and Al Ritt welcomed 12 classmates and their spouses to the reunion. For those who hadn't visited the campus in recent years, like Dr. and Mrs. Kenneth Olson, who divide their time between Gulf Stream, Florida, and South Bend, Indiana, the most astonishing development was "the (U of M West Bank) campus on the other side of the river!"

Even more recent visitors were perplexed by the streamlining of the Seven Corners area. "I'd never be able to find my way around," said Cyrus Erickson, who now lives in Tennessee.

At lunch in the Campus Club on Commencement Day, the '32 graduates met Dr. Donald Asp ('64), President of the Medical Alumni Society, and heard Dean Gault report on the current status of their school. He spoke proudly of Minnesota's high standing among US medical schools, and also gave some information about the pres-

ent student body: The Medical School admits 239 students into the Phase A program; after two years 40 students from UM-Duluth's two-year medical school join the class, in Phase D.

Currently, 35% of medical students are women, and 8% are members of minority groups: Black, Native American Indian, or Spanish-surnamed. More Minnesota graduates enter primary care specialties than the national average: 65% take their residency training in Pediatrics, Obstetrics and Gynecology, Internal Medicine, or Family Practice. And the rate of attrition over the four years is only 2%, due mainly to illness or changed family circumstances.

"That's certainly a change from our day," remarked Al Ritt. "We expected a high wash-out rate."

"True; but we don't wash out medical students any more," said Dean Gault. "We admit good students, and we want to see them all graduate."

The Dean also lauded the Medical School's distinguished departments of basic science, in which 250 graduate students are currently enrolled in doctoral degree programs. "Our Pharmacology Department has the No. 1 graduate program in the US," he said (see p. 16), "and the others are not far behind."

"Let's see," said Elizabeth Conforth, who lives in San Diego, "there were

about 14 women in our class, out of about 140, and three of us are here. That's pretty good, I think."

"Beats the men," said Karin Petri, who practiced pediatrics in Houston, "but then, we always did!"

The third alumna, Eva Shaperman Gordon, agreed. She too is retired, but her husband, Dr. Philip Gordon, still practices psychiatry in San Diego. Russell Sather of Crookston still practices internal medicine at Northwestern Clinic, but most of the other classmates have retired.

After two days of almost continuous excitement, reminiscence of teachers and absent classmates, and comparing of children and grandchildren, the 50th reunion ended with dessert and coffee at the home of Dr. and Mrs. Berman. The classmates of 1932 bid one another cheerful goodbyes, with, "See you in another 50 years."

These members of the Class of '32 provided information about themselves:

Reuben Berman retired from the private practice of internal medicine in 1980, but he still sees some patients and does research in hypertension at Mt. Sinai Hospital in Minneapolis. He and his wife, Isabel, have six children, all graduates of the University of Minnesota; their three sons are all physicians. "Music has been a lifelong hobby," he

writes, "the clarinet since childhood, and I changed to the bassoon six years ago." He is immediate past president of the Minnesota Medical Foundation.

Theodore J. Catlin and his wife, Shirley, live in Buffalo, Minnesota. He retired from general practice in 1968 and enjoys woodworking, gardening, and "cutting firewood." The Catlins have three daughters.

Elizabeth Conforth has practiced pathology for 35 years, "chiefly in San Diego and Los Angeles." She served as a "contract surgeon" for four years in an army hospital in Frankfurt when her husband was stationed in Germany with the US Army of Occupation. She and her husband are close to their seven brothers and sisters and their "flocks of nieces and nephews." Among her hobbies are "growing orchids, camellias, annuals, and strawberries, cooking, bridge, and playing the organ."

Earl W. Ellis says that, before he retired from general practice in 1980, he was "the busiest physician in Wabasha County." He and his wife, Marvel, live in Elgin, Minnesota; his most recent accomplishment was winning the Senior State Left-Handed Golf Tournament in 1976; and he also enjoys gardening, playing the piano, and painting in acrylics. The Ellises have three married daughters.

Cyrus E. Erickson writes, "During the past 45 years I have primarily 'bragged' about being a Minnesota graduate!" After internship, residency, and graduate training in pathology, in Minneapolis, Detroit, and Rochester, he joined the faculty of Duke University Medical School, where he stayed until 1950. A lieutenant colonel in the USRMC, he saw active duty in World War II with Duke's 65th General Hospital Unit in the US (Fort Bragg), England, and Germany.

In 1950, he moved to the University of Tennessee, where he served the College of Medicine and the Medical Units as professor, as head (1968-72), and as director of the School of Cytotechnology (1951-75). Retiring in 1974, he is now Professor Emeritus. Among many awards and honors he is particularly proud of several awards from the American Cancer Society, the 1965 Papanicolaou Award, given by the American Society of Cytology, and a Distinguished Alumnus Award from Duke (1972).

His memories of medical school in-



clude "the great opportunity and stimulating experience of working as student, volunteer assistant, or research fellow under such great Minnesota faculty of our era as E. T. Bell, Owen Wengenstein, Irvine McQuarrie. . . . and football under Bernie Bierman!"

He and his wife, Bernice, have a son and a daughter. Hobbies include golf, gardening, "long-distance management of family farm and lakeshore near Alexandria," and "periodic return to office to investigate records and follow-up of Uterine Cancer Cytology Project — 30-year follow-up!"

Muriel C. Gaffney has retired and lives in Silver Spring, Maryland, where she enjoys "hard crossword puzzles, reading the classics," and her nine children and nineteen grandchildren. She did not attend the reunion because her youngest daughter, Kathy, was married June 5. Vivid memories of medical school include "Anatomy dissection. From what I hear, it's a lot neater now."

Harold E. Gillespie, semi-retired in Richmond, Virginia, served as Captain (MC), US Navy, from 1932 to 1963, aviation medicine his specialty. He won seven campaign ribbons and six battle stars, and after leaving the service he became assistant commissioner of the Virginia State Health Department. Of medical education he remembers "being a junior intern at Northwestern Hospital for 2½ years."

He and his wife have three children, one a Lieutenant Commander (MC), USN. He writes, "Nothing would please me more than to attend and renew friendships"; however, the reunion conflicts with the annual visit of his two grandsons and "the boys are fishing age and look forward all year to going out on Chesapeake Bay."



Philip and Eva Shaperman Gordon, after many years of practice together in Minneapolis, at the Gordon Clinic, moved to San Diego to be near their pathologist daughter and their grandchildren. While still in Minneapolis, Philip, a specialist in physical medicine, took a residency in psychiatry. Eva retired from the practice of pediatrics when she moved to San Diego.

"I'm the only physician in San Diego who still makes rounds every morning," says Philip. "The younger doctors can't understand it."

Hugo V. Hullerman, after nearly 30 years as a hospital administrator in Illinois and Michigan, retired with his wife, Maurine, to Sun City, Arizona. There he serves as chairman of the board of the Sun Health Corporation and on the board of the Boswell Memorial Hospital. In his spare time he enjoys golf, bridge, fishing, silver craft, and lapidary work. The Hullermans have two daughters and five grandchildren.

H. P. Lenton is a Fellow of the American College of Chest Physicians and a member of the American Society of Internal Medicine. He and his wife live in Carlisle, Pennsylvania. His outstanding medical school memory is of "the first examination in physiology, and the question, 'What about a fog?'"

Alfred Merrill McCausland and his physician wife, Frances Holmes McCausland, live in Los Angeles where he practiced obstetrics and gynecology until his retirement in 1977. He reports, "I am unable to be present at our reunion due to health problems (Parkinson's)." He is a Fellow of both the AAOG and the ACOG, and has been very active in several professional organizations in California. The McCauslands have a son and a daughter, both physicians.



Wallace A. (Bud) Merritt practiced internal medicine at the Mayo Clinic from 1938 until his retirement in 1976, except for four years in the US Medical Corps during World War II when he served in New Guinea, the Philippines, and Tokyo. He still lives in Rochester, Minnesota, where he enjoys yard work, golf, and volunteer work. From medical school he has fond memories of "the lectures and demonstrations of Drs. Scammon, Rasmussen, and E. T. Bell." He and his wife Thelma have a son and two daughters.

After practicing radiology for 34 years in South Bend, Indiana, **Kenneth L. Olson** retired to Gulf Stream, Florida, in 1976. He writes, "I enjoyed radiology, and was president of the Indiana Roentgen Society, and of the Indiana Medical Association in 1959-60." He served the profession and the community in many other volunteer capacities, such as the Community Chest and the United Way. The Olsons have three daughters.

"Hard work and no money" is **George E. Penn's** outstanding memory of medical school. Retired in 1972 from his practice of obstetrics and gynecology in Mankato, Minnesota, George writes, "My greatest life reward has been my many satisfied patients." He and his second wife, Bess, have a son and a daughter and three small grandchildren. His main hobby is collecting: advertising pencils and yardsticks; antique tools, medical instruments and books, and musical instruments; china; and American pressed glass. He also likes to restore and refinish antique furniture and to collect, cut, and study gemstones and other minerals.

John H. Peterson started out in general practice, but after serving as a medical officer in the US Navy from 1941 to 1945, he took a fellowship in



ophthalmology at the University of Minnesota Hospitals from 1945 to 1948, and subsequently practiced ophthalmology in Duluth until his retirement in 1979. About medical school he recalls "playing on the University hockey team for three years and going through pre-med and medical education at the same time. A sense of satisfaction in having been able to do it." He has one daughter and his hobbies include "gardening, fishing, curling, walking, and reading."

"I will do my best to attend the banquet," he wrote, but added that he was "host for the 50th reunion of the survivors of the USS Hammann DD412 which was sunk at the Battle of Midway in 1942." This reunion took place in Duluth at the same time.

Karin Aileen Petri had a distinguished career as a student: Rockefeller Fellow at the University of Minnesota, 1933-35; grantee from the Child Research Council, University of Colorado, 1935-37; and Sigma Xi. Now retired from her private pediatric practice in Houston, she remembers particularly "Dr. Richard Scammon's embryology lectures, Dr. Esther Greisheimer's helpfulness and concern, and all the Pediatric Department, especially Dr. Irvine McQuarrie and Dr. Arild Hansen." She has two sons and her hobbies include "gardening, fishing, traveling, and enjoying my grandchildren."

Albert E. Ritt, who retired from general practice in 1965, served as President of the American Academy of Family Practice, 1963-1964, and was active in the Ramsey County and Minnesota State medical societies and the AMA. He remembers "Graduation Day!" as the outstanding event of medical school. He and his wife have three children and live in St. Paul, where Al is President of the Midway National Bank.

Russell O. Sather has practiced internal medicine at Northwestern Clinic, Crookston, Minnesota, since 1937, except for his five years of military service. He won a bronze star in the Spice Islands, Southwest Pacific Theater, and was given the University of Minnesota's Harold Diehl Award in 1976. His most memorable experiences in medical school include "Instructor for 9 months with Dr. E. T. Bell — especially his entertaining CPC conferences, clerkship under Dr. Hobart Reiman, and working with Dr. Francis Lynch in the outpatient dermatology clinic." He has a daughter and a son, who heads the Division of Family Practice at the University of Alabama Medical School, and his hobbies include travel, growing roses, photography, and Crookston community affairs. He is a past Trustee of the Minnesota Medical Foundation.

Jan H. Tillisch lives in Rochester, Minnesota, where he has practiced internal medicine and aerospace medicine. He and his wife have a daughter and a son, and his hobby is study of the Civil War.

S. W. Watson writes that his "only accomplishment was rural general practice for 50 years and not being arrested." He and his wife live in Royalton, Minnesota, and he enjoys many hobbies, including photography, gardening, golf, hunting, and fishing. What "stands out after 50 years," he writes, are "Dr. Scammon's lectures in embryology and clinical medicine under Dr. George Fahr and Dr. Moses Barron."

A Class of '32 Fund was established, stimulated by a generous gift from Dr. and Mrs. Ritt and the gifts of several others. The Fund has been designated the Class of 1932 Loan Fund and will be administered by the Minnesota Medical Foundation.

According to Dr. Reuben Berman, MMF Trustee and co-chair of the class reunion, loans will be available from the Fund to current medical students at educational rates of interest.

Members of the Class of 1932 are encouraged to contribute to the Loan Fund, said Berman, by bequest or by current gift.

To obtain information about testamentary gifts, contact the Minnesota Medical Foundation, 535 Diehl Hall, University of Minnesota, Minneapolis, MN 55455.



Recognition of alumni who have made extraordinary contributions to the health sciences and to the university was also part of the spring reunions and celebrations.

For more recent alumni as well, the weekend provided opportunity to renew friendships and rekindle memories. Several classes held private celebrations, like the Class of '47, for its 35th reunion. And the Medical Alumni Society's cocktail party, on June 5, in the Ski-U-Mah Room of the Minnesota Alumni Club, saw alumni, spouses, and friends happily mingling.



High points of the Annual Meeting of the University of Minnesota Medical Alumni Society, at its luncheon on June 5, 1982, were the presentation of the University of Minnesota Alumni Service Award to Clinical Emeritus Professor of Surgery William C. Bernstein, M.D. ('28), former President of the Society; the Harold S. Diehl Award for distinguished service to S. Lane Arey, M.D. ('32), Clinical Emeritus Professor of Pediatrics, and Kristofer Hagen, M.D.

Continued



('42), family practitioner and medical missionary; and a keynote address by John L. McKelvey, M.D., Emeritus Professor of Obstetrics and Gynecology.

Lunch was served to nearly 200 alumni and guests in the colorful Spectrum Cafeteria in the Phillips-Wangensteen Building, separating the two sessions of the Alumni Society's Postgraduate course, "New Horizons in Minnesota Medicine." Konald A. Prem ('50) was Master of Ceremonies. Dr. Prem, Head of the Department of Obstetrics and Gynecology, was the outgoing President of the Medical Alumni Society.

Service Award

The Alumni Service Award is the highest award the University grants to an alumnus for significant service to the institution. Only four or five medical graduates have received it, including Virgil Lundquist ('43).

Dr. William C. Bernstein is former Director of the Division of Colon and Rectal Surgery in the Medical School, past President of the Alumni Society, as mentioned, and 1971 recipient of the Diehl Award. He holds three degrees from the University: B.S. (1925), M.B. (1927), and M.D. (1928).

From 1929 to 1940, Dr. Bernstein practiced family medicine in the southern Minnesota community of New Richland. His growing interest in diseases of the lower bowel, however, led him to the new field of colon and rectal surgery, and from 1940 to 1943 he was a voluntary Fellow in the Department of Surgery under Dr. Walter A. Fansler.

After serving with the University's Medical Unit in Oak Ridge, Tennessee, during World War II, Dr. Bernstein was asked to head the new proctologic diagnostic and surgical service at the Minneapolis Veterans' Hospital in 1946. In 1958, he succeeded Dr. Fansler as chief

of the Division of Colon and Rectal Surgery, a post he held until he retired in 1972.

Dr. Bernstein's deep commitment to the University and to the Medical School are reflected in his service as a faculty member and clinician, and as Clinical Professor Emeritus he has continued to serve the Department of Surgery as its Director of Special Projects. Notable among these special projects have been his chairmanship of the Committee for the Construction of the Kidney Dialysis Center and the production of the documentary film, "Progress in Surgery through Research at the University of Minnesota."

He is a recipient of the Mt. Zion Humanitarian Award, the President's Award for Distinguished Service from the Minnesota Medical Association, and the Clifford Emerson Hardwick Award

for outstanding contributions to the field of colon and rectal surgery.

Eivind Hoff, Executive Director of the Minnesota Medical Foundation, presented the Alumni Service Award to Dr. Bernstein in behalf of the University.

Diehl Awards

The Harold S. Diehl Awards are given annually by the Medical Alumni Association in the name of the former Dean of the Medical School, who died in 1973. They honor Minnesota physicians for outstanding service to their profession and their community. This year's recipients, Dr. Arey and Dr. Hagen, are two shining examples of creative and committed service.

S. Lane Arey grew up in Minnesota and graduated from medical school in 1931. Although he trained as a pediatrician and took a pediatrics internship at

William Bernstein (right) accepts the UM Alumni Service Award from Eivind Hoff.





Kristofer Hagen, left, and S. L. Arey, right.

Children's Memorial Hospital in Chicago, Dr. Arey did not practice pediatrics until 1943. "My father died nine months after I began practice, and I took over his family practice out here in Minnetonka. Then the war came along, and I went into the Navy. I was discharged in 1943, because I had TB, and I became a practicing pediatrician as soon as I got over that."

Dr. Arey has also been a clinical teacher since 1943, both at Minneapolis General (now Hennepin County Medical Center) and at the University, and a pioneer in pediatric allergy. His service through the Minnesota Medical Association and Rotary International "has earned him the admiration, respect, and love of the entire Minnesota medical community," in the words of his Diehl citation.

In 1970, Dr. Arey sailed to North Africa with Project Hope. He is an enthusiastic flyer and skier, and "an alleged golfer." On receiving the Diehl Award, he quoted Robert Montgomery: "If you achieve success, you will get applause. If you get applause, you will hear it. My advice concerning applause: Enjoy it, but never quite believe it."

Kristofer Hagen, M.D. ('42), has practiced family medicine in an unusual variety of places: in this country with the Indian Health Service and in Richfield and Edina; in Bihar, India; and in Ethiopia, Taiwan, Honduras, and Vietnam.

With the Santal Mission in Bihar, east of Calcutta, he opened an abandoned hospital in 1952 with the help of a team of Minnesota nurses. They developed the hospital from 60 to 125 beds and added a nursing school. The school and hospital are called Mohulpahari, "forest place," in Hindi, and its graduates now receive the highest scores in the region on national tests.

From 1964 to 1969, Dr. Hagen

served on the board of missions of the American Lutheran Church, checking on the progress and development of Lutheran hospitals around the world. From 1965 to 1972, he also served as an associate editor of *Modern Medicine*, the semi-monthly magazine for physicians that was then published in Edina.

In 1974 he helped set up a hospital at Waldia, in Ethiopia, with equipment from Metropolitan Medical Center, Fairview Hospital, and St. Mary's Hospital in Rochester, among other places. "We taught surgery to the young Ethiopian doctors on an old operating table that Dr. Charlie Mayo used. We did about 375 operations in 100 days."

A subendocardial infarct in 1976 slowed but did not stop him; in 1977 he was off to Taiwan for six months, and in 1980 to Honduras. Still practicing at Fairview-Southdale (he was one of the first physicians to occupy the new complex in 1957), he has no immediate plans to travel . . . "but one never knows."

Distinguished former recipients of the Diehl Award have included Owen H. Wangenstein, who received it in 1962, the first year the award was bestowed; William C. Bernstein, as mentioned; Reuben Berman; Russell Sather; Leonard Lang; and Eva Jane Larsen.

New Alumni Slate

New officers of the Medical Alumni Society, installed at the luncheon meeting, are Donald Asp ('64), President; Jan Adams ('72), Vice-president; and Richard A. Carlson ('72), Secretary-Treasurer.

Other Health Sciences Alumni Awards

The Outstanding Achievement Award of the University of Minnesota Alumni Association was awarded to **Gary Lewis Filerman**, Ph.D. (Epidemiology, '70), at the School of Public Health commencement on May 22, 1982. Dr. Filerman is president of the Association of University Programs in Health Administration. He became the AUPHA's first executive director in 1965 and has steered that organization to its present position as a developer of more than 70 graduate-level training programs in the health care field.

The School of Nursing also honored two graduates with Outstanding Achievement Awards at its alumni reunion on April 21, 1982. **Patricia A. Delman**, M.N. ('57), M.P.H. ('73), is a nursing consultant to the U.S. Department of Health and Human Services and has served as program director with the Pan American Health Organization, in which capacity she helped to establish nursing standards throughout Latin America.

Marie L. O'Koren, R.N. ('46), is dean of the School of Nursing at the University of Alabama. A native of Eveleth, Dean O'Koren established one of the South's first doctoral programs in nursing at Alabama and also developed an innovative off-campus "mobile classroom" technique for continuing nursing education.

Focus on Basic Science

Department of Pharmacology

The Department of Pharmacology at the University of Minnesota is a research and teaching department with both a basic and an applied dimension. "It is actually a combination," says Frederick E. Shideman, Ph.D., M.D., Professor and Head of the Department, "because we use the techniques of the basic sciences to investigate drugs. Pharmacology is the science of how chemical substances — drugs — interact with bio-systems."

Professor Shideman is only the third Head of Pharmacology since the Department was organized, in 1913. He took over in 1962 from Dr. Raymond Bieter, who had headed the department since 1943, when he succeeded Dr. Arthur D. Hirschfelder. Before Dr. Hirschfelder's appointment, in 1913, pharmacology was regarded as a branch of physiology, uniting the fields of toxicology and materia medica and therapeutics.

Among the faculty members Dr. Shideman brought to Minnesota in his first years as Head are Professors Akira Takemori and Ben Zimmerman. In 1964, Dr. Bernard Mirkin joined the faculty; his primary interest is developmental pharmacology, and since 1971 he has headed the Division of Clinical Pharmacology within the Department.

A strong neuropharmacology group has emerged within the Department, including Professors Richard A. Meisch, Sheldon B. Sparber, Takemori, and George L. Wilcox. Professors Robert F. O'Dea and Nelson Goldberg are conducting investigation into receptor mechanisms, at cellular and subcellular levels.

By far the largest group of investigators are those concerned with cardiovascular and renal pharmacology: Professors Earl W. Dunham, Thomas P. Green, A.J. Quebbeman, Shideman, Alan R. Sinaiko, and Zimmerman. Professor Norman E. Sladek conducts re-

search into cancer chemotherapy. Studies on drug metabolism, toxicology, and carcinogenesis take place in the laboratories of Professors M.W. Anders, Patrick E. Hanna, and Gilbert J. Mantering. Professor Jack W. Miller's work is in reproductive and endocrine pharmacology.

Members of the Pharmacology Department teach undergraduate medical students — pharmacology courses are a required part of both the Phase A and the Phase B curriculum — dental students, nursing students, pharmacy students, and dental hygiene students.



F. E. Shideman, M.D., Ph.D.

These courses involve both lectures and laboratory work.

Undergraduate students in the Basic Sciences can also take either a major or a minor in Pharmacology. The 23 faculty members in the department lecture in these undergraduate courses and are also the mentors of the 30 to 35 pre-doctoral graduate students and 15 or so post-doctoral fellows.

There are many examples of interdisciplinary research in the Department: Professor Goldberg works with biochemists from the College of Biolo-

gical Sciences; Professor Wilcox with psychiatrists; and Professor Takemori is conducting a collaborative study of opioid receptors with Prof. Philip S. Portoghesi, of the College of Pharmacy. "But," says Professor Takemori, "our strength is that we are independent investigators."

Strength of the Graduate Program

"Dr. Shideman has people with expertise in all areas; all fields are represented. That's why this Department is so good for training graduate students. The first year, they rotate through four or five laboratories, and then they choose a dissertation advisor." The Pharmacology Department has been ranked No. 1 in the United States for its graduate training program.

"In the first two years," continues Professor Takemori, "graduate students need a lot of supervision. By the third year, they're almost on their own. By the fourth year, they're starting to teach me."

Graduates of this Department can be found heading and staffing other departments of pharmacology in universities around the country, as well as serving in government and industry.

Clinical Pharmacology

In addition to Dr. Mirkin, who is also Professor of Pediatrics, members of the Division of Clinical Pharmacology come from other departments in the medical school, jointly supported by their clinical departments and by Pharmacology.

Research activity in the Division involves investigation in several different areas:

- long-term study of neural tumors of childhood, specifically neuroblastoma. This project involves animal models as well as clinical research;

- treatment and causes of childhood hypertension. Minnesota is one of the

world centers of this research. Many of the newest antihypertensive drugs being used to treat children were tested in this project;

— atherosclerosis. Prof. Donald Hunninghake has been conducting a large-scale human study of the effectiveness of various drugs in lowering blood cholesterol and lipids;

— kidney disease, including drug problems of kidney transplant patients. Professor Mirkin estimates that Division members do “400 to 500 consultations per year” in the University of Minnesota hospitals on problems associated with kidney disease, including drug interactions, immunosuppression, and the day-to-day effects of drugs on kidney patients;

— the appropriate use of antibiotics.

Professor Mirkin describes the work of the Division as “trying to provide interfaces between basic and clinical sciences.” Clinical medicine has made great technical advances, such as organ transplantation, but “the basic biological questions are still unresolved. The real issue is to understand how these things work.”

In the brief articles that follow, the *Bulletin* takes a look at work in three of the Department’s laboratories. As with the other basic sciences, there is a diversity of techniques, instruments, and experimental approaches that an outsider finds bewildering. But Professor Sparber, a nationally recognized authority on developmental and behavioral effects of drugs, particularly drugs of abuse, describes their basic unity:

“When pharmacologists use drugs as tools, we are generally aware that they have a diversity of actions, selectivity being dependent upon the appropriate dose or concentration. Our understanding of the selective effects of drugs and how they affect physiological or biochemical processes may then advance



our understanding of basic biological processes.

“Unlike a biochemist, who may be interested in characterizing an enzyme by doing amino acid sequencing or determining its crystalline structure, we might want to know, for example, how that enzyme mediates the effects of a drug, or vice versa — whether it is a therapeutic agent, a drug of abuse, or a pharmacological probe.”

A Model of Hypertension

The place looks like a physiology laboratory. A large, placid dog lies, fully conscious, on a padded table, while its blood pressure and renal blood flow are being monitored. A laboratory worker, one of Dr. Ben Zimmerman’s assistants, speaks soothingly to the dog, and it thumps its tail on the table.

This dog, with instruments chronically implanted, is known as an animal model of hypertension. Dr. Zimmerman and his assistants have performed a modified Goldblatt procedure, constricting one renal artery to produce renovascular hypertension, in order to examine what happens to the dog’s own production of the enzyme renin and the hormone angiotensin when the dog is given antihypertensive drugs — the same drugs that are used for lowering high blood pressure in human beings.

“We use conscious dogs, because when you examine these things in an anesthetized animal, the combination of

anesthesia and surgery completely alters the functioning of the vascular system,” says Dr. Zimmerman. “You get elevated levels of renin, elevated prostaglandins, especially prostacyclin, and the surgical trauma completely changes the response of the kidney. Information is either exaggerated, or it’s masked.

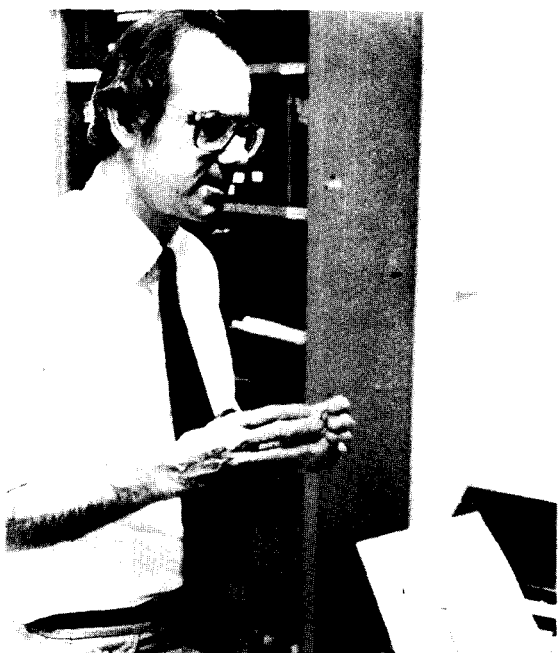
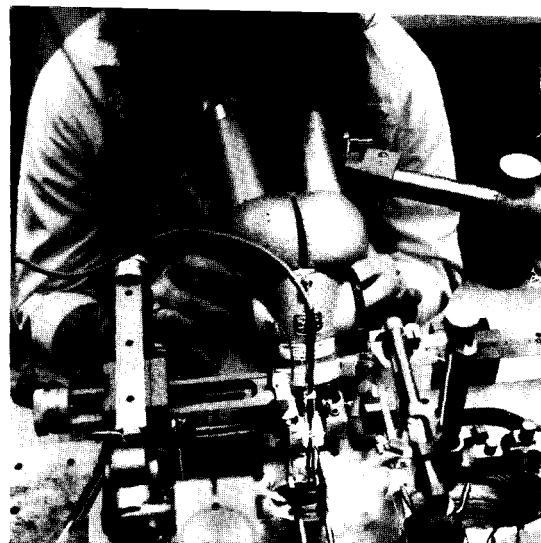
“Also, when the dogs are conscious, we can follow them for a relatively long time. We’ve done longitudinal studies of renal blood flow, blood pressure, plasma renin activity, and renal vascular resistance. We get a pretty fair picture of the influence of hypertension on the target organ — the kidney.

“Hypertension is a fascinating disease to study, because it is so multi-determined. Irvine Page, who did some of the early work on the renin-angiotensin system, described it as a ‘mosaic.’ We just look at one small part of it, and we try to describe accurately what we see.

“The difference between what we do here and what a renal physiologist does is that we’re investigating drugs — drug effects, a whole spectrum of the drugs that are used to treat this condition in human beings, as well as a whole group of substances that are not drugs, that we administer in order to study their effects: naturally occurring substances like acetylcholine, bradykinin, and angiotensin, and the adrenergic transmitter, norepinephrine.

“Antihypertensive drugs work in different ways. Some are angiotensin

Department of Pharmacology



Ben Zimmerman

antagonists and converting enzyme inhibitors; some are *alpha* adrenergic blockers that block the actual receptor sites on vascular muscle cells. There are neural blocking agents that block release of the neurotransmitter substance; and there are prostaglandin synthesis inhibitors that also affect vascular control. We look at all of them, in our hypertensive model, and we see what effects they produce on the renal circulation and on the animal as a whole.

"We're interested in the effects on the whole animal. You could describe what we do as pathophysiology, even though we only intervene in the renovascular system."

Support for the work in Dr. Zimmerman's laboratory comes mainly from the National Institutes of Health, although they have some industrial support: Marion Laboratories has funded a study of *alpha* adrenergic blocking drugs. "Quite a basic study, obviously," says Dr. Zimmerman. "There's a lot of

serendipity in this field; we often end up with results that are totally contrary to our suppositions.

"Elevation of blood pressure seems to be the end-result of many different processes. Perhaps you could say the same about coronary artery disease. But over the long term, even a rather small degree of hypertension seems to damage the target organs. That's what we are looking at, in our research.

"Clinicians believe that treating mild hypertension early will avoid damage, in the long run." And perhaps discoveries made on Zimmerman's dogs will some day influence the drugs available to human beings.

Where Does It Hurt?

Dr. George L. Wilcox, Assistant Professor of Pharmacology, directs a team of investigators in studies on the neurobiology of pain and itch. "I began my career as a neurophysiologist," he says. "Neurophysiologists deduce function from the electrical activity of different places in the brain.

"But neuroscientists have come to realize the limitations of studying only electrical activity; brain function is highly chemical. Every neuron, or nerve cell, releases at least one and perhaps several chemical substances called neurotransmitters. The study of the function of these neurotransmitters is in the realm of pharmacology."

The other members of Dr. Wilcox's team are Janice Hylden, a graduate student, and Sutaeg Hwang, M.D., a psychiatrist from Korea who is taking postdoctoral training in neuropharmacology. Their current project began when Ms. Hylden wanted to investigate the effect of substance P injected intrathecally, directly onto the spinal cord.

"We've known about substance P for a long time," says Dr. Wilcox. "It's a material that occurs naturally in sensory neurons, and its release may play a role

in the response to pain. When we inject substance P intrathecally, we observe behavior appropriate to the perception of mild pain."

Substance P, says Dr. Wilcox, has several characteristics that make it a likely candidate for the role of a neurotransmitter for pain: it is contained in the appropriate neurons; it is released from these neurons by painful stimulation; its injection seems to produce mild pain; and this pain is blocked by morphine.

The investigators found that intrathecal substance P caused mice to bite, lick, and scratch the skin of their abdomens, "for about a minute, as long as the substance lasts before enzymes destroy it. After presenting these results at several meetings, we found that people asked, 'Are you sure it's not itch?' Classically, itch is regarded as a mild form of pain.

"That raised the question of what itch is. This question required looking at the many neurotransmitters that may be involved in the perception of sensation.

"Another peptide seems to be associated with itch — a substance called somatostatin. When we inject somatostatin intrathecally in mice, we observe generalized scratching of quite a different kind . . . and its effect is not prevented by morphine.

"Now, it seems that morphine doesn't block itch in humans; in fact, intrathecal morphine causes itch." Other investigators' neurophysiological studies have shown that substance P generally excites neurons in the spinal cord, whereas somatostatin inhibits them. "In other words, pain may be excitation of a neuron, and itch may be inhibition of the same neuron.

"I got onto this last summer, when I was stung on the hand by a yellow-jacket. Two days later, my hand itched intensely. Now, common sense tells us that pain reverses itch; after all, that's what we do when we scratch an itch, we

Left, Janice Hylden probes the rat nervous system. Right, the Wilcox team: Hylden, Sutaeg Hwang, and George Wilcox.



produce mild pain, which stops the itch.

"So as an experiment, I applied thermal pain in the hope of altering the itch of the sting. I bathed my hand in water at about 60°C, too hot for my unbiten hand to stand, and it felt wonderful! The itch was gone. By the next day, the hand with the sting was swollen, because I'd scalded it . . . and here's the exciting part: I never felt the pain of the scald.

"So, the hypothesis reads: Pain blocks itch, and vice versa. Pain and itch are opposites. Pain, mediated perhaps by substance P, excites spinal neurons, while itch, mediated perhaps by somatostatin, inhibits them."

This project has been supported by several grants, including a research grant from the Minnesota Medical Foundation and funds from the National Institute of Drug Abuse. This spring, the project was awarded a three-year research grant from Procter & Gamble's University Exploratory Research Program, for \$119,000.

About the future of the research, Dr. Wilcox says, "It's hard to quantify behavior satisfactorily. 'Hard' science requires measurements. The biting, licking, scratching behavior we observe in our mice is 'soft'; it's animal behavior, graded by a less than perfect human.

"We need to measure the activity of spinal neurons projecting to the brain, in response to pain, itch, and injected substances. And that is what we are proposing to do."

The Chemistry of Perception

A distinguished investigator in the Department, Dr. Nelson Goldberg, is an internationally known authority on cyclic nucleotide metabolism. The walls of his office are bright with Chinese watercolors among the textbooks, and someone has cut out a magazine cartoon showing a chef tasting a dish and saying, "More Yin, less Yang."

In an informal but impressively well-organized conversation, Dr. Goldberg told the *Bulletin* how his work connects with the more tangible clinical aspects of health science.

"Some fifty years ago, A. J. Clark, a pharmacologist, proposed the existence of receptors or recognition sites on the outside of cells, that could recognize a hormone molecule or neurotransmitter such as epinephrine — Adrenalin. These 'messenger' molecules are discharged from certain sensing organs like the brain to signal specific types of cells that can recognize the 'message' to perform or not to perform the particular function for which they were designed.

"The recognition of the messenger molecule by the receptor causes a reprogramming of the body's functions to a new set of instructions that permits accommodation to the changes that

are constantly taking place in our environment.

"The concept of receptors has been around for some time — but techniques were not available until recently to prove their existence. However, many of the new drugs you read about, called agonists or antagonists, are designed from information that has been developed from this concept: The *beta* blockers, which have recently been shown to produce such dramatic and beneficial effects in the treatment of cardiac problems such as angina, are a good example.

"In this laboratory, we work on what lies beyond the receptor." Dr. Goldberg occupies most of the fourth floor of Lyon Laboratories. Working with him are research fellow Dr. Tim Walseth, associate scientist Beth Kuehn, and junior scientist Susan Eide. Several members of the Biochemistry Department from the College of Biological Sciences also collaborate, specifically Prof. John Gander and senior scientist Tom Krick.

"We are interested in what happens after the 'messenger' molecules attach to their receptor. How is the information transmitted from the surface into the cell? What are the 'effector' molecules that actually modify the function of the cell's internal machinery?"



The Goldberg team. Seated, from left: junior scientist Susan Eide, Nelson Goldberg, senior scientist Tom Krick, Prof. John Gander. Standing: Tim Walseth, Beth Kuehn.

Department of Pharmacology

"We already know that the message received by the receptor is transmitted to a transducer. The transducer is linked up to another molecule called a cyclase, which amplifies the signal. In fact, the whole system can best be described as a multi-stage amplification network, represented by a cascade of enzymes that is capable of amplifying the signal from a single molecule, such as epinephrine, to more than a trillion molecules of glucose that are released, for example from the liver, to maintain the blood sugar level during fasting."

This complex system of reception and communication is very delicate. It can be affected by external stimuli as well as by internal cellular events. Dr. Goldberg and his colleagues have focused on the basic chemical mechanisms underlying the regulation of cell functions.

"Cyclic adenosine monophosphate — cAMP — plays a key role as an effector within the cell that controls numerous cellular processes. Another cyclic nucleotide, cyclic guanosine monophosphate or cGMP, we discovered is also present, in all cells. We believe it plays an equally important but opposing role: If cAMP inhibits white blood cells from performing their function, for example, we find that cGMP is intimately involved in promoting the complex function of these cells. cAMP stimulates the contractility of the heart, cGMP inhibits it.

"From these observations we formulated what we called the Yin/Yang hypothesis of biological regulation, a metaphor, really for the relationship of these two substances in controlling cell processes. It is a concept that is consonant with the theories of classical Oriental medicine, which are based on a system of complementarities."

The Yin/Yang hypothesis came to the attention of Chinese scientists, who have an active research effort in this area, and Dr. Goldberg was invited to come to China and lecture to medical school faculties.

"I lived there for two months, mostly in Shanghai and Peking. They have recently appointed me Honorary Professor at the Shanghai Medical College. I've been invited again this fall, and I'd like very much to contribute to the development of Chinese medical science, but things in my laboratory are so exciting that I'll probably have to postpone a return visit for a while."

What is exciting in the Lyon Laboratories is that Dr. Goldberg's work with cGMP has led to work on the chemistry of the transduction of light by the retina of the eye into a neural impulse — the chemistry of sensory perception.

"We know, now, that cGMP is intimately involved in sensory reception, which we believe may represent a model for its involvement in other cell processes. The problem in understanding the precise biological importance of cGMP is that the mechanism by which it controls cell function has not been defined. A new concept we have been working on represents the antithesis of the classical view, which has failed to come up with the answer to this important problem.

"Our idea is that destruction of cGMP by way of its hydrolysis is the important aspect of its metabolism, and that this process is a means of generating protons, rather than merely getting rid of the cGMP, as everyone had thought. In the case of the retina, for example, it can be shown that one photon of light has the potential to promote the hydrolysis of 100,000 molecules of cGMP

within milliseconds; but whether or not this really occurs, we don't know.

"We believe this represents the long-sought magnification step in vision, and we are studying this system from the perspective of the light stimulus representing the hormone. In order to test this new concept in the retina and other systems, we have developed a means of monitoring the dynamics of cGMP and cAMP metabolism in intact cells, simply by substituting water containing isotopic oxygen for regular water in the cell incubation medium.

"When the cyclic nucleotides are hydrolyzed, an atom of the isotopic oxygen becomes permanently trapped in the metabolic product. We have made the first measurements of how the cyclic nucleotide systems really behave in intact cells, and we have been astounded at how much more dynamic these systems are than was previously thought.

"It's difficult to predict exactly how our basic studies of cyclic nucleotide metabolism and its involvement in controlling cell functions will ultimately relate to clinical medicine, but the potential seems to be considerable. Imbalances in cyclic nucleotide metabolism are believed to be the cause of many disease processes, including cancer, cardiovascular disease, diabetes, epilepsy, asthma, and blindness.

"Other basic studies have made possible the development of receptor antagonists and agonists that are effective for the treatment of scores of disorders: antibiotics, antipsychotic agents, anticonvulsants, drugs that prevent rejection of transplanted organs (see story on p. 21), and others.

"I can go back to China another time. For now, I'm involved in this work."



On the Campus

New Health Sciences VP

"When someone comes into a new situation," says Neal A. Vanselow, M.D., the new vice-president for health sciences at the University of Minnesota, "the first thing they have to do is listen, rather than tell people what they're going to do."

On September 1, when Dr. Vanselow comes to the Twin Cities from Omaha, where he has served as Chancellor of the University of Nebraska Medical Center and vice-president of the University, he says he plans "to do a lot of listening."

Dr. Vanselow will take over the vice-presidency from Dr. Lyle A. French, who has occupied the position since it was created in 1970. Dr. French told the Board of Regents in July, 1981, that he wished to return to teaching and clinical work as professor of neurosurgery.

A Challenging Position

"From what I know," continues Dr. Vanselow, "all the health sciences at Minnesota are superb. Still, there will be many challenges in this position." He states firmly that construction of the new hospital is "going to have to be the No. 1 priority. The commitment has already been made."

"Controlling health care costs will be a big issue in the years to come. Here in Nebraska, we're looking at ways to cut costs, to reorganize outpatient departments or reassign students. Of course, we are only approximately half the size of Minnesota."

"Still, University hospitals are going to have to change. On the other hand, teaching hospitals provide a lot of important functions that are not always consonant with the greatest cost-efficiency. You can't really compare them with other hospitals. They train students and residents; they have the

responsibility for clinical research. Teaching hospitals also have traditionally taken care of indigent patients."

Born in Milwaukee, Dr. Vanselow studied at the University of Michigan, where he received his M.D. *cum laude* in 1958. He lived in Minneapolis in 1958-59, when he served a rotating internship at "the hospital that is now called Hennepin County Medical Center," then went back to Ann Arbor for a residency in internal medicine and a fellowship in allergy.

He joined the faculty of Michigan's Department of Internal Medicine, then



Neal A. Vanselow

became Head of the Department and Director of the Medical Center Office of Health Professions Education and Research. In 1974, he went to the University of Arizona as a Professor of Medicine and Dean of the College of Medicine, and in 1977 to Nebraska as professor and chancellor.

"A Minnesota Air"

The search committee for the new Minnesota vice-president, headed by Lee D. Stauffer, Dean of the School of Public Health, presented a list of five qual-

ified candidates to President Magrath, who chose Dr. Vanselow.

"He had experience as a dean and as a vice-president," says Dean Stauffer, "and he had done a successful job of negotiating with the Nebraska legislature. In talking with him and seeing him relate to people, we found him an open person, forthright, accessible, but firm in his ideas. People feel comfortable with him; he has a sort of Minnesota air."

Dr. Vanselow and his wife, Mary Ellen, have two children, Julie and Richard, both students at Iowa State University. "You know," commented Dr. Vanselow, "the year we spent in Minneapolis was the first year we were married. I made \$75 a month as an intern. My wife, who was a nurse, made \$320. It was wonderful; we've never had more money in our lives."

"We're looking forward to the Minnesota autumn," he said. Dr. Vanselow will be the guest speaker at this year's Annual Meeting of the Minnesota Medical Foundation, to be held October 27, at the Minneapolis Club.

Heart Transplant Study at U of M

"No one person can know everything there is to know about heart transplantation," says Dr. Ron Ferguson, one of the University of Minnesota's transplant surgeons. "There's the cardiology, the medical management, the transplant surgery itself, and the immunosuppression. It is a team effort."

The University's cardiac transplantation team will have a chance to demonstrate the success of the procedure in the course of an 18-month study of heart transplantation, jointly sponsored by the federal Health Care Financing Administration (HCFA) and the US Public Health Service. The study will determine whether the operation, first performed 25 years ago by Dr. Christiaan

On the Campus

Barnard, with techniques developed at the University by Dr. Norman Shumway (see Commencement story, p. 1), and others, is a viable and cost-effective medical procedure.

"We feel that heart transplantation is no longer experimental," says Dr. John Najarian, chief of surgery.

Minnesota is one of only six centers across the country that will participate in the study: the Medical College of Virginia, Columbia-Presbyterian Hospital in New York City; the University of Pittsburgh, the University of Arizona, and Stanford University, where Dr. Shumway is chief of cardiovascular surgery, are the others.

Dr. Najarian said he expects a positive outcome to the 18-month study. "Two and three years afterward, some of these patients appear perfectly healthy," he says. Of the ten patients who have received heart transplants at the University since 1978, five are alive and well. "We believe this proportion will grow," says Dr. Ferguson, "and that 50 to 70% of patients will do very well."

"With heart transplant patients," he continues, "we are looking at people with end-stage cardiac disease. You've got to be realistic."

Realistically, such patients can expect only a year or two of painful disability before they die, unless they receive a new heart. The costs of the procedure, which now run between \$40,000 and \$50,000, not including post-operative care, must be balanced against such an unacceptable quality of life and against the costs of frequent hospital admissions and palliative care.

The major complication of heart transplantation has been rejection of the implanted organ. The next most serious complication is infection, when patients are given immunosuppressant drugs to overcome the organ rejection. "The drug cyclosporin has tremendously im-

proved immunosuppression," says Dr. Ferguson. "Not only are we seeing fewer rejection episodes, but also fewer infections."

Cytomegalovirus (CMV) has been a well publicized cause of some post-heart transplantation infections. "Cyclosporin is effective against it," says Dr. Ferguson. "We're seeing a markedly reduced incidence of CMV."

As soon as HCFA determines the dollar amount that each hospital study center will receive, the program will begin. "We could start tomorrow," says Dr. Ferguson.

Lazarow Lecturer



Stefan S. Fajans, M.D., Professor of Medicine and Head of the Division of Endocrinology and Metabolism at the University of Michigan, Ann Arbor, delivered the Seventh Annual Lazarow Lecture on June 24. The lecture series, honoring Dr. Arnold Lazarow, former Professor and Head of the Department of Anatomy, who died in 1975, is sponsored jointly by the Department and the Minnesota Medical Foundation.

Dr. Fajans, who directs the Michigan Diabetes Research and Training Center, spoke on "The Heterogeneity of Diabetes Mellitus," presenting the current view that diabetes is a syndrome rather than a single disease, representing the end-point of different pathogenetic mechanisms.

Clayton Named to NBME

Paula J. Clayton, M.D., Professor and Head of the Department of Psychiatry, University of Minnesota Medical School, has been appointed to the National Board of Medical Examiners (NBME), as a member of the Board's Part II Psychiatry Test Committee.

She joins a corps of more than 100 distinguished medical educators who have accepted the responsibility for developing and maintaining the NBME's evaluation system.

"I think it's good to have standard tests," says Dr. Clayton, "especially in psychiatry. The examination gives the specialty a more credible and less ambiguous standing than the image it has had in the past."

A native of St. Louis, Dr. Clayton came to Minnesota in 1981 from the Department of Psychiatry at Washington University Medical School, where she received her M.D., and where she was Professor of Psychiatry and Director of the Adult Inpatient Service at Barnes Hospital.

The National Boards are universally recognized as indicators of professional qualifications. Medical licensing authorities in 48 of 50 states accept Board certification without further requirements. About 80% of U.S. medical graduates are licensed to practice medicine through National Board certification.

In the words of Edithe J. Levit, M.D., President and Director of the NBME, "The test committees form an integral part of the Board's evaluation system, and it is through the dedicated efforts of these individuals [examiners] that the Board . . . provides examinations of high quality."

Mellon Foundation Grant

The University of Minnesota has received a three-year grant from the Andrew W. Mellon Foundation for a project in which Dr. David Hamilton, head of the Department of Anatomy, will study sperm cell maturation. Proteins on the surface of sperm cells seem to govern their motility as well as their capacity to fertilize ova of the same species. Dr. Hamilton's investigations will involve developing antibodies to sperm cell surface proteins; these antibodies serve as markers and enable the investigator to locate a particular protein, both where it appears on the cell surface and at what stage in the maturation process it is formed.

Dr. Hamilton, a graduate of Harvard (B.A., 1957), the University of Kansas (M.A., 1960), and Cambridge University (Ph.D., 1963), has studied mammalian reproductive anatomy for a number of years. Until his 1981 paper, "Alpha-Lactalbumin-like activity in fluids of the male reproductive tract" (*Biology of Reproduction* 25:385), "it was assumed," he says, "that alpha lactalbumin was present only in the milk of lactating mothers. Now we have found that it is present in semen in animals in very high quantities."

It is possible, he believes, that "this molecule has some regulatory role in how the (surface) protein is assembled." This summer, Dr. Hamilton is working on sperm cell surface proteins with Dr. Roger Craig at the Courtauld Institute of Biochemistry in London.

The Mellon award of \$185,000 will be administered by the Minnesota Medical Foundation. For the past several years, the Mellon Foundation, like the Ford and Rockefeller Foundations, has included basic study of reproduction in its population program. According to Dr. Hamilton, "the ob-

vious consequence of understanding mechanisms of reproduction is being able to control them, either to aid infertility or to manage fertility."

Faculty News

Dr. Elof G. (Gus) Nelson, assistant professor of family practice and community health, has been named vice-president for health and human services at North Memorial Hospital in Minneapolis. He will remain a part-time member of the Department faculty and will continue to coordinate the Behavioral Medicine curriculum.

Professor of Medicine Athanasios Theologides will be the new head of oncology at Hennepin County Medical Center. He remains a full-time member of the Department of Medicine.

Departmental Appointments

In the Department of Anatomy, Dr. Paul C. Letourneau was promoted from assistant to associate professor:

In the Department of Biochemistry, Dr. James B. Howard from associate professor to professor;

In the Department of Family Practice and Community Health, Dr. Richard L. Holloway from assistant to associate professor;

In the Department of Laboratory Medicine and Pathology, Dr. Patricia Ferrieri, professor of pediatrics, to professor; Dr. Leo Furcht from associate professor to professor; Drs. Larry D. Bowers, Lance Peterson, Richard Sibley, and Michael J. Wilson from assistant to associate professor;

In the Department of Medicine, Dr. Morrison Hodges from associate professor to professor; Dr. Rex B. Shafer from associate professor of medicine and radiology to professor of both; Drs.

Retirement

Grace Mary Ederer, M.P.H. ('62), professor in the Division of Medical Technology, Department of Laboratory Medicine and Pathology, retired on June 30, 1982, after 30 years at the university. A native of Morton, Minnesota, Professor Ederer received her B.A. in 1941 from the College of St. Catherine, St. Paul, and served her medical technology internship at Providence Hospital, Detroit. She came to the University of Minnesota in 1952 as an instructor in laboratory technology and progressed steadily through the academic ranks, becoming an associate professor of laboratory medicine and pathology in 1967. A specialist in microbiology, at her retirement Professor Ederer was Director of Bacteriology, Mycology, and Parasitology in the Microbiology Laboratory of the University of Minnesota Hospitals.

Richard W. Asinger, Gary S. Francis, Roger L. Gebhard, Robert P. Hebbel, William F. Keane, Craig J. McClain, Martin Oken, Lance Peterson, and Geza Simon from assistant to associate professor; Dr. Russell V. Luepker from lecturer to associate professor, to conform to his appointment in the School of Public Health;

In the Department of Neurology, Dr. Ronald E. Cranford from assistant to associate professor;

In the Department of Otolaryngology, Drs. Robert H. Maisel and Tetsuo Morizono from assistant to associate professor;

In the Department of Radiology, Dr. Mathis P. Frick from assistant to associate professor;

In the Department of Surgery, Dr. Theodor B. Grage from associate professor to professor and Dr. Santhath Nivatvongs from assistant to associate professor.

Honors

Student Achievement Awards

Four graduating medical students and one third-year (Phase D3) student won the 1982 Medical Student Achievement Awards from the Minnesota Medical Foundation. The awards, in the amount of \$1,000 each, recognize extraordinary achievement in medical school, in academic and clinical work, research, leadership, and community service. Nadine Smith, MD, presented the awards at a meeting of the Medical School Administrative Board on May 20.

The 1982 winners were Candy Abramson, Duluth; Thomas Bergman, Daniel Buss, and Matthew Norman, all of Minneapolis; and Carole Lannon, Glen Ellyn, Illinois. Students are nominated by medical school faculty, clinical preceptors, other students, or colleagues with a knowledge of their work. The MMF Awards and Honors Committee selects each year's recipients from among the nominees.

Candy Abramson, described by her teachers as an "outstanding young scientist" who has already "made major contributions to the medical field," has done most of her work in cancer immunology, her primary field of interest. "My mother had cancer," she says, "in 1974; that sparked my interest. She's doing all right now. But I want to find out as much as I can about these diseases."

To date, Dr. Abramson has eight publications to her credit, as principal author or co-author, and she is currently a resident in medicine at Barnes Hospital, St. Louis.

In 1981, she won the MMF's **J.T. Livermore Award** for outstanding research in hematology. She has achieved distinction outside the laboratory as well: she helped to organize a seminar program within the medical school, in

which students present their research results, and in fall, 1981, she attended a special NIH course in clinical hematology. A summa cum laude graduate of Stanford University, she is also a member of AOA and Phi Beta Kappa.



Candy Abramson

About **Thomas Bergman's** clinical work, one of his advisors wrote, "His clarity and inquiring insight served as a model even for those his seniors in experience." His research record is also a distinguished one; he received both an MMF research grant and a student research grant from the Department of Laboratory Medicine and Pathology. Neurological disease has been his primary interest, although he also participated in research projects on endocrine disorders and head trauma. He is now a resident in neurosurgery at the University of Minnesota Medical Center.

Dr. Bergman's academic record in medical school continued his excellent undergraduate record. For eight straight years, since he first enrolled as a freshman at Princeton in 1974, he received the annually renewable Alworth Scholarship, and he was vice-president of the Minnesota chapter of AOA. He served his class as student representative for the Planning and Management Committee of the Phase B reproduction

course and as a member of the Neurological Science track committee.

The third-year student nominated for outstanding achievement is **Daniel D. Buss**, President's scholar and summa cum laude graduate of the University of Minnesota and a member of Sigma Xi and AOA. He has already shown extraordinary ability as an investigator, specifically in developing a blunt trauma animal model for studying and evaluating osteoarthritis, and his academic record is faultless. In addition, he has maintained an unusually high level of participation in community affairs, serving on the student grievance committee and the cardiovascular course committee, as well as coaching Little League baseball and chaperoning youth groups.

"I really only have two passions," he says, "medicine and my wife. We got married this year, and she is immensely supportive — emotionally as well as financially."

Buss's research in the Department of Orthopedic Surgery was made possible by a fellowship from MMF. As an undergraduate, his three years of research in biochemistry won the **Thomas E. Andrews Award**, and he has published two papers in the biochemical literature.



Thomas Bergman

Carole Lannon's work, both clinical and investigative, shows "a scope and depth rarely seen in a medical student," according to one of her advisors. A summa cum laude graduate of Macalester College, Dr. Lannon received "outstanding" evaluations throughout her medical school career; she coordinated the Humanistic Medicine student group, which sponsored noon seminars and all-day workshops, and twice she was voted the **Lange Award** by her classmates, for extracurricular activities benefiting the class.

Between her third and fourth years, she took a year off and divided the time between research on lymphoid differentiation, under Dr. Alexandra Filipovich, and work in the Lao and Khmer refugee camps of Thailand, under the aegis of the International Rescue Committee. Her research was supported by a Zagaria Fellowship, an MMF grant, and an NIH student research grant. She is also an active member of Physicians for Social Responsibility and has testified before the state hearing examiner on proposed uranium exploration in Minnesota.

In the words of another advisor, Dr. Lannon's work shows that she is "will-



Daniel Buss

ing and able to pursue student leadership, community service, and academic excellence simultaneously." She is a special-program pediatric resident at the University of North Carolina — Chapel Hill, where she will continue to integrate her social and scientific commitments.

Although emergency medicine is not normally a part of the medical curriculum, **Matthew Norman** has distinguished himself in this field, as a four-year volunteer with the University of Minnesota Emergency Medical Re-



Carole Lannon

sponse Team (UMEMRT), a member and instructor of the National Ski Patrol, and an instructor in first aid and CPR training for Health Sciences students. His academic record is excellent, as is his research: he has helped to develop a new fluorophotometric technique for evaluating retinal lesions in diabetic retinopathy.

"Diabetes is the major cause of blindness in young adults," he says, "and the sooner we can catch it, the more effectively we can prevent it. This technique may lead to earlier detection; I hope so."

Dr. Norman's unusual dedication and breadth of interest were evident during



Matthew Norman

his undergraduate career at the College of St. Thomas, where he helped to start a successful cooperative program with St. Paul-Ramsey Medical Center, offering paraprofessional experience for undergraduates in the biological sciences. He is now a resident in ophthalmology at the Mayo Graduate School of Medicine.

Bacaner Basic Science Awards

The Minnesota Medical Foundation and the Department of Biochemistry were hosts at a dinner and symposium honoring the winners of the Fifth Annual Bacaner Basic Science Awards. The Bacaner Awards, given through MMF by Professor Marvin Bacaner of the Department of Physiology in memory of his parents, Jacob and Minnie Bacaner, are given to graduate students in each of the six basic science departments who have done outstanding research — one each from the Departments of Anatomy, Biochemistry, Laboratory Medicine and Pathology [Pathobiology], Microbiology, Pharmacology, and Physiology.

On Monday night, May 17, at dinner in the Minnesota Alumni Club, citations

Honors

and the \$500 awards were given to the six winners, and at the two-part symposium, given Monday afternoon and Tuesday morning, they presented their papers. John A. Dani, Department of Physiology, spoke on "Water and Ion Permeability Properties of the Gramicidin Channel." Randolph C. Steer, of the Pathobiology graduate program of the Department of Laboratory Medicine and Pathology, presented "Phosphoprotein Metabolism in the Nuclear Envelope." Clifford J. Unkefer, Biochemistry, presented his work on "The Carbon-13 and Phosphorus-31 NMR Spectroscopy of the 5-O-B-D-Galactofuranosyl-containing Glycopeptide from *Penicillium charlesii*."

From the Anatomy Department, Dana E. Johnson presented the results of his work on "The Streptozotocin-Nicotinamide-induced Rat Islet Adenoma: Characterization of *in vitro* Proinsulin and Insulin Synthesis in Whole Tumor Tissue and Tumor Derived Cell-Free Systems." Pancras C. Wong, of the Department of Pharmacology, spoke on "The Roles of the Renin-Angiotensin System and Renal Prostaglandins in the Control of Blood Pressure and Renal Blood Flow"; and Paul Orndorff, from the Department of Microbiology, read "Cell Surface Proteins and Development in *Myxococcus xanthus*."

Dr. H.P.C. Hogenkamp, Professor and Head of the Department of Biochemistry, chaired the symposium. The six basic science departments, each of which selects its own recipient for the Bacaner Award, host the annual symposium in rotation.

The Bacaner Basic Science Awards are intended to stimulate "creative research" in the basic sciences. "The encouragement of young investigators," Dr. Bacaner has said, "is to my thinking the most important contribution anyone can make to assure the fruitful future."

AOA Scholarship

On his wife's birthday, Phase A (freshman) medical student Jeff Robinson found "a nice bond envelope in the mail, with a hand-typed address." He wondered, he says, "if I won anything."

That letter brought the news that he had indeed won something: the \$1,000 scholarship given annually to an outstanding medical student by the Minnesota Medical Foundation, with funds from medical honor society Alpha Omega Alpha. "A nice present for Carol," he says, "and a terrific surprise for me."

A graduate of Highland Park High School in Saint Paul, Jeff did his undergraduate work at Washington University, Saint Louis, where he majored in physics and biology. Returning to Min-



Jeff Robinson

M. B. Peterson Award

The first Mary Bizal Peterson Memorial Award, for a graduating medical student who has chosen a residency in neurology at the University of Minnesota Health Sciences Center, was awarded to Donald T. Starzinski of St. Paul.

Dr. Starzinski, who earned a Ph.D. in Psychopharmacology before entering medical school, wrote, "As a psychology undergraduate, I became interested in the neurological correlates of behavior and as a graduate student, neuropharmacology fascinated me. Medical school has led to an appreciation of clinical applications of the neurological sciences. I expect to see exciting new horizons in Neurology related to advances in Neuropharmacology."

Dr. Edward Nohl Peterson ('24), of Virginia, Minnesota, established this annual award through the Minnesota Medical Foundation in memory of his wife, Mary Bizal Peterson.

nesota for medical school, he entered the university in Fall, 1981, and almost immediately became active in a letter-writing campaign sponsored by the American Association of Medical Colleges, protesting cuts in public aid to medical education and the substitution of the high-interest Health Education Administration Loan (HEAL) program.

"If costs keep going up and aid keeps going down," he says, "soon the only people who will be able to become doctors will be the rich. We'll be creating a rigid class system." Jeff and Phase B student Mark Schmalz, also active in the letter-writing campaign, told their story on a local television show in May, 1982.

Even with this extracurricular activity, Jeff was able to maintain outstanding grades. He and his wife are caretakers in their apartment building; she works full time in retail menswear, and Jeff sometimes pinch-hits for her. Marriage "makes things a bit easier," he says. "The other person can pick up the slack — financially and emotionally."

Jeff has many good things to say

about the Medical School, especially the administration. "People are really cooperative. They're wonderful about cutting red tape. Somehow I got two ID numbers at one point, and the folks in the office smoothed it out for me. They know how hard we work."

He looks forward to Phase B and its rotating clerkships. "We've learned to take histories and do physicals, but that's not enough. I want to see some sick patients and learn from them." Jeff has not chosen a specialty, but "almost certainly clinical medicine."

Jeff will keep on writing letters, and the AOA scholarship will certainly come in handy: "It'll be more difficult to work as the curriculum becomes more demanding. I'd never really known about AOA before," he says. "But if they do good work like this, I'm all for them. I hope to belong, someday."

1982 Barnum Fellows

The Department of Biochemistry has announced the winners of Cyrus P. Barnum, Jr., Teaching Fellowships for 1982: teaching assistants Richard Miksicek and Luann P. Rosenthal each received \$400 cash prizes and certificates through the Minnesota Medical Foundation for their exceptional work during the 1981-82 academic year.

Miksicek, a graduate of Northwestern University, is completing his graduate work in Dr. Howard C. Towle's laboratory. He plans to go to Heidelberg for his post-doctoral work.

Rosenthal received her undergraduate training at the Université de Paris, VII. She is working as a graduate student with Prof. James W. Bodley.

The Barnum Teaching Fellowship in Biochemistry is awarded annually in memory of Cyrus Paine Barnum, Jr., a distinguished member of the biochemistry faculty who died in 1965.

Carolyn Borow Wins Burke Award

Carolyn J. Borow, M.D., a resident at Fairview-St. Mary's Smiley's Point Clinic, has won the 1982 Leonard P. Burke Memorial Award for extraordinary achievement by a Resident in Family Practice and Community Health at the University.

At a banquet honoring 43 new Family Practice Residency Training Program graduates, Dr. Borow was presented with a certificate and a check for \$750 from the Minnesota Medical Foundation. Dr. Edward W. Ciriacy, Professor and Head of the Department of Family Practice and Community Health, presided at the banquet, for nearly 200 guests, in the University of Minnesota Alumni Club on June 2.

Dr. Borow has shown an unusual interest in the community health needs of the mentally ill. Her interest in psychology led her, in her second year of residency, to form the Minnesota Archetypal Study Center. MASC is an organization that refers patients to free or low-cost sources of therapy and to classes and community activities that address psychological needs.

Seeing a lack of facilities available in the community for severely disturbed patients, Dr. Borow worked as a volunteer with Hennepin County mental health personnel and others to establish a residential treatment center for chronically mentally ill young adults, where intensive psychological therapy could be combined with training in independent living skills.

After more than a year of hard work, such a facility, called Janus, opened in March, 1982, under the joint aegis of Hennepin County, MASC, and the Willows Convalescent Centers. Dr. Borow developed the family therapy component of the treatment facility as her Community Health rotation.

The Department of
Family Practice and Community Health
cordially invites you to a

DINNER

for

GRADUATING RESIDENTS



U of M Alumni Club

A Minneapolis native, Dr. Borow attended the University of Minnesota as an undergraduate (B.A., summa cum laude, 1973) and Boston University School of Medicine, where she was awarded a certificate of recognition as the best student in community medicine, 1978. She is a member of Physicians for Social Responsibility, the Twin Cities C. G. Jung Association, and the Sierra Club.

The Leonard P. Burke Memorial Award was established by his family on Dr. Burke's death, in 1979, after nearly 50 years of family practice in Verona, N.J., to reflect his high ideals of community service by a family physician. He was a 1931 graduate of the University of Minnesota Medical School.

Dr. Borow has extended her three-year residency into four years, as a result of her commitment to Janus. In their nomination, her colleagues said, "We believe her unique approach of combining the efforts of allopathic medical methodology with a basic psychological approach to care and treatment of a difficult group of patients is to be highly commended."

Honors

New AOA Members

At ceremonies held April 13, 1982 at the Town and Country Club, St. Paul, medical honorary society Alpha Omega Alpha announced the election of 45 new members, 22 of them graduating seniors in the University of Minnesota Medical School and the rest, members of the Class of 1983.

Peter Dehnel, M.D., '82, president of the Alpha (Minnesota) chapter, announced the donation of a \$1,000 scholarship award for academic excellence to the Minnesota Medical Foundation. (See story on p. 26.) Drs. Joyce L. Funke, Assistant Professor of Medicine and Assistant Director of Boynton Health Service, and W. Albert Sullivan, Associate Dean of the Medical School, were guests at the banquet, which was attended by 125.

New AOA members of the Class of 1982: Jeffrey L. Adams, Eveleth; Susan D. Adamson, Thief River Falls; Dana L. Battles, Minneapolis; Jay C. Erie, Crookston; Karen M. Gosen, Brainerd; Paul E. Havel, Minneapolis; Stuart B. Johnson, Bloomington; Danny B. Lange, Harmony; Michael A. Maddaus, Minneapolis; Douglas J. McDonald, Albert Lea; Gregory P. Melcher, Buffalo; William D. Morin, White Bear Lake; Susan K. Nelson, Red Wing; David L. Nomeland, Osakis; David C. Primrose, Bloomington; Kenneth S. Rholl, Golden Valley; Graham D. Ritts, Rochester; Elizabeth R. Seaquist, Minneapolis; Rolf N. Sigford, St. Paul; Valerie K. Ulstad, Edina; Craig A. Walden, Balaton; and Roberta L. Zimmerman, White Bear Lake.

Members of the Class of 1983: Robert E. Anderson, Aberdeen, SD; Neil M. Bealka, Stillwater; William D. Beyer, South St. Paul; Dawn M. Blomgren, Hopkins; Denise L. Bonde, Faribault; Daniel D. Buss, Claremont; John W. Crump, Glen Ellyn, IL; Maryanna Destro, Rochester; David C. Eitheim, Rochester; Nancy C. Elder, Bloomington; William A. Fintel, Minneapolis; Cindy M. Howe, Minneapolis; Mary D. Johnson, Sidney, MT; Julianne E. Koski, Babbitt; Theodore J. Loftness, Gibbon; Cynthia L. Lystad, St. Paul; Richard J. O'Neill, Duluth; Bruce E. Shapiro, Minneapolis; David L. Slater, St. Paul; Marilyn A. Thompson, Valders, WI; Kevin W. Treacy, St. Paul; Jeffrey N. Weitzel, Brooklyn Center; and John L. Zenk, Olivia.

The 50 Club: 1982 Edition

Twenty-two alumni of the Medical School were among those physicians honored by the Minnesota Medical Association on May 27, 1982 for 50 years of medical practice.

Recognized as new members of MMA's Fifty Club were these senior alumni, most of whom were part of the Class of 1932:

Willard M. Akins, Red Wing

Alex G. Berger, Minneapolis
Alice H. Fuller, Minneapolis
Joseph L. Garten, Minneapolis
John A. Haugen, Minneapolis
Walter K. Haven, Minneapolis
Raymond P. Hawkinson, Minneapolis
Samuel M. Herman, West St. Paul
Elmer M. Hill, Minneapolis
Llewellyn P. Howell, Rochester
Alex A. Kugler, St. Paul

Leonard A. Lang, Edina
Russell C. Lindgren, Edina
Burtis J. Mears, St. Paul
Stephen D. Mills, Rochester
Elisabeth M. Murray, Minneapolis
Maynard C. Nelson, Minneapolis
O. L. Norman Nelson, Minneapolis
Albert E. Ritt, St. Paul
William G. Rogne, Spring Grove
Reinhardt L. Schmidtke, Bloomington
Nels N. Sonnesyn, Tampa, Florida

Continuing Education

Aug. 5-6, Recognizing and Resolving Chemical Abuse Problems, Hazelden Foundation, Center City, MN

Sept. 1-3, Annual Autumn Seminar: Obstetrics & Gynecology, Hyatt Regency, Minneapolis

Sept. 9-10, Topics in Geriatric Medicine: Endocrinology and the Elderly, Willey Hall, U of M, Minneapolis

Sept. 13-17, Radiology/82: Skeletal Radiology Including the Spine, Willey Hall, U of M, Minneapolis

Sept. 23-25, Fifth Annual Trauma Seminar, Hennepin County Medical Center, Minneapolis

Sept. 24-25, Endourology: Percutaneous Access to the Urinary Tract, Health Sciences Unit A, U of M, Minneapolis

Oct. 6-7, A Symposium: The Clinical Use of Exercise Testing, Prescription and Training, North Memorial Medical Center, Minneapolis

Oct. 20-23, Principles of Colon and Rectal Surgery, Mayo Memorial Auditorium, Minneapolis

For further information, call Continuing Medical Education, (612) 373-8012

Medical Foundation

Small Research Grants

Small research grants totalling \$35,000 were awarded by the Minnesota Medical Foundation in fiscal 1981-82:

V.S. Seybold, Assistant Professor of Anatomy, received \$3,490 for a project entitled "Receptor Autoradiography using a Darkfield Stereomicroscope";

K.W. Adolph, Assistant Professor of Biochemistry, received \$3,692 to investigate "Nonhistone Proteins and HeLa Chromosome Structure";

J.J. O'Leary, Assistant Professor, and **J. Donhowe**, Instructor of Laboratory Medicine, received \$3,692 to pursue their work on "Mechanism of Altered T and B Lymphocyte Function in Aging Man";

K.S. Kleiman, Post-doctoral Fellow in Medicine, also received \$3,692 to perform "In vitro Studies of Human Monocyte T Cell Interactions in Uremic Patients";

P.K. Peterson, Associate Professor of Medicine, received \$3,100 to study "Receptors of Human Alveolar Macrophages and Polymorphonuclear Leukocytes for C5a and C3b";

J.D. Taurog, Assistant Professor of Medicine, received \$3,500 for "Studies of the Cellular Basis of Adjuvant Arthritis";

N.J. Vogelzang, Assistant Professor of Medicine, received \$3,692 for a project on "Human Germ Cell Tumor Xenografts Maintained in Thymus-Deficient (Nude/Nude) Mice: Morphological and Biochemical Studies";

J.M. Pries, Assistant Professor of Medicine, received \$3,350 to study "Canalicular Membrane Permeability in Mechanical Obstruction of the Liver";

R.K. Fidelus-Gort, Postdoctoral Associate, and **R. Ferguson**, Assistant Professor of Surgery, received \$3,100 to perform studies on "The Effect of Cyclosporin A on T Cell Growth Factor

(TCGF)-Dependent Responses and the Expression of the TCGF Receptor";

R.V. Clayman, Assistant Professor of Urological Surgery, received \$3,692 for work on "Cholesterol Biosynthesis in Human Renal Malignancy: In vivo Studies using Athymic Mice."

Board Report

At their Spring Board meeting, the Trustees of the Minnesota Medical Foundation set a fund-raising goal of \$3.5 million for fiscal year 1983 and approved a \$3.145 million program of service to the University's two medical schools at Minneapolis and Duluth.

An important part of this program will be \$500,000 in loans to medical students. Seven new faculty research proposals worth \$36,450 and two student proposals for \$1,800, making a total of \$38,250 in small grants, were approved by the Board.

Special Grants were approved which will provide \$15,000 to fund a clinical research project in radiation therapy and \$5,380 for three other University projects in research and education. Special grants often have a timely urgency, perhaps rescuing an investigator when other support may have been suddenly reduced or canceled in federal budget cutbacks. The new MMF budget includes \$350,000 for the Research Grants Program.

The 1982 Annual Meeting of the Foundation will be held Oct. 27 at the Minneapolis Club, at 6:30 p.m. Dr. Neal Vanselow, new Vice-President for Health Sciences at the University, will be the guest speaker.



Focus on Alumni

Dr. Charlie Sheppard

Dr. Charles Sheppard, Class of 1935, has combined several professional careers in a single lifetime and is still going strong. Dr. Sheppard will retire from his current post as Medical Director of the Minnesota Security Hospital, St. Peter, in September.

In his 18 years of public service in St. Peter, Dr. Sheppard has pushed for change — for new buildings, for more treatment, and for a generally more humane attitude toward the residents of all three state hospitals in St. Peter.

Charlie Sheppard came to St. Peter State Hospital in 1964 as a hospital doctor. He became assistant medical director for both the State Hospital and the Minnesota Security Hospital in 1969; then he was appointed Medical Director of the Security Hospital, a post he has held ever since. Before coming to St. Peter, he had been a successful solo general practitioner in Hutchinson, Minnesota, for 27 years. What led him to make such a change?

"As a GP, I found that more and more of my time was taken up with counseling my patients. It got so I never saw my family. I had to schedule

counseling sessions every evening. I'd never had any training in psychiatry, but what I was doing was really psychiatry.

"So I sold my practice and came down to work at St. Peter State Hospital." He laughs. "In those days — still, to some extent — they had difficulty getting good doctors. Often people came to the hospital after a scandal — drug addiction, malpractice, or a crime. I remember one of the nurses asking me, 'Tell me, doctor, what did you do, to have to come here?'"

Dr. Sheppard brought the touch of a family physician into the sordid world of the state mental hospitals. Also, although he would never say it, he brought the dedication of a professional who prefers to use his training and authority in public service, and forgo the material rewards of private practice.

"It was just like you read about; the back wards were full of forgotten people. Being sent to St. Peter was like a life sentence. Patients received little help, and their cases were almost never reviewed. One floor was full of bedridden old women.

"The men and women were segre-

gated. One of the first things we did was to mix them up. It was decided to mix them by county, rather than by sex or severity of illness, and we saw immediate improvement! The women began to take more care with their appearance, and so did the men. Their social interaction improved. The more closely the hospital resembled normal life, the less crazy the patients acted.

"We improved the hospital, too — pictures on the walls, flowers on the tables. We started a dress code. It was very simple: clothes instead of nothing. But it worked. There are more streakers on the outside, now, than there are on the inside."

Minnesota State Security Hospital formerly was called the Hospital for the Criminal Insane. That phrase has just about passed out of the language, as psychiatry and criminal justice studies have evolved toward a different view of guilt, responsibility, and punishment. Since 1963, the emphasis at the State Security Hospital has been on treatment, rather than incarceration.

"The psychotropic drugs made the single biggest difference in the care of



Old St. Peter State Hospital, Main building

*"The back wards were full of forgotten people.
Being sent to St. Peter was like a life
sentence."*

the mentally ill," says Dr. Sheppard, "whether or not they are criminals. What used to be called criminal insanity is now regarded in two aspects: one is that the person is mentally disturbed but able to know that what s/he did was wrong, and the second is those cases where the crime was part of a delusional system.

"It's in the second type that you get a verdict of not guilty by reason of insanity. That's Rule 20.02 of the Rules of Criminal Procedure. That began to be used in 1975. The Hospital Commitment Act was revised, under Doug Head in 1967, and now it's being revamped again."

Dr. Sheppard himself has had some influence on the redrafting of laws dealing with the mentally ill and dangerous patient. "When people sentenced to St. Peter came up for review, it used to be that there was a three-judge panel, including the judge that sentenced them and two nearby judges. They took their time about reaching a decision; sometimes six to eleven months would go by between the hearing and the decision. This was very unfair to the patient.

Also, I thought maybe having the judge on the panel who sentenced them was prejudicial.

"So the requirement was changed; it's still a three-person panel, but one is a lawyer, one is a psychologist; and the other is usually a judge, and it's not the original judge. They usually reach a decision within 30 days."

Was it difficult for Dr. Sheppard to involve himself in the politics of mental illness and custodial care? "No; I've always been very interested in politics. Back in 1939, when I first joined the Minnesota Medical Association, I was told it was run by an oligarchy. The McLeod County Medical Society sent me down to the convention as a delegate — not everybody's interested, you know — and I walked in and in due time, asked, 'Who runs this organization?' Ultimately, I was asked, 'How would you like to run for vice-speaker of the House of Delegates?'

"After that I was Speaker for 11 years, and then in 1967 they elected me President." Mrs. Sheppard also has a great interest in politics. She was active in McLeod County, District 2, and

state Independent-Republican politics for many years; Senator Rudy Boschwitz calls her his "mentor."

"Retiring on the instalment plan"

After such an active professional life — or two — does retirement seem a dull prospect to Dr. Sheppard? "Not at all. I've tried to take my father's advice. He was an 1891 graduate of the University of Minnesota Medical School, and he told me, 'Retire on the instalment plan.' I've always taken a month's vacation, all in a lump. At first, so I could be with my family while they were growing up, and then so I could have the experience of organizing my leisure time — retiring by stages.

"I have all sorts of plans, but do not plan to leave Le Sueur. We love this old house we live in, which was built by one of the founders of Green Giant. I plan to do some consulting and some court work, but otherwise plan to do pretty much as I please. I hope to go back to take some music lessons, learn Spanish and brush up on my German, as well as

In 1964, when Dr. Charlie Sheppard came to St. Peter State Hospital, it housed between 1,400 and 1,500 patients, many of them in a three-story building called "the Flats," which had been built about 1866.

"The further back and the higher up, the worse you were," he remembers. "My introduction to Upper Flat 3 came on my first day: a schizophrenic girl of 14 or 15 was huddled, naked, in the corner of a locked room. When the attendant opened the door to bring her lunch, she sprang up and ran past us out the door, knocking the tray of food all over us. She ran onto the porch and cowered in a corner there.

"I heard from her, just the other month. She has been out for years. She'll always be schizophrenic, but she does all right on medication."





"I'm glad I will have had these three months in the new building . . ."

In one of Dr. Charlie Sheppard's other lives, when he was a family physician in Hutchinson, Minnesota, he grew a beard to help the town celebrate its Centennial in 1955, "when beards were absolutely a no-no — for anybody!" To warn his patients of the change in their family doctor's appearance, he wrote these verses and posted them on his office door:

Let all who come into this office beware!

The Doctor has covered his face with hair —

The "centennial bug" has bit him at last,

So please forgive this trip into the past.

All Docs in that long-forgotten day
Adorned their faces with species of hay.

So come, guys, join in
To shave now is a sin

And see what you can grow on your chinny-chin-chin!

taking in a lot of plays and concerts."

Dr. Sheppard is a dedicated jazz pianist, who enjoys the classical repertory as well, and a passionate photographer. He has taken moving and still pictures on every trip, including seven trips abroad. The Sheppards have visited Russia and China, as well as most of the countries of Europe, on their four People-to-People International travel missions, and they have also traveled abroad on their own, visiting their many friends in foreign countries.

"We were able to organize and develop contacts with physicians in every country we visited."

Dr. and Mrs. Sheppard have two grown children, and their grandchildren come to spend some time with them every summer.

So retirement is merely the next challenge in a life that has been filled with challenges. He has switched from private practice to public service; from family medicine to administration of a large institution; from family practice to a population of mentally ill and often dangerous offenders.

"I was never afraid for myself; I knew

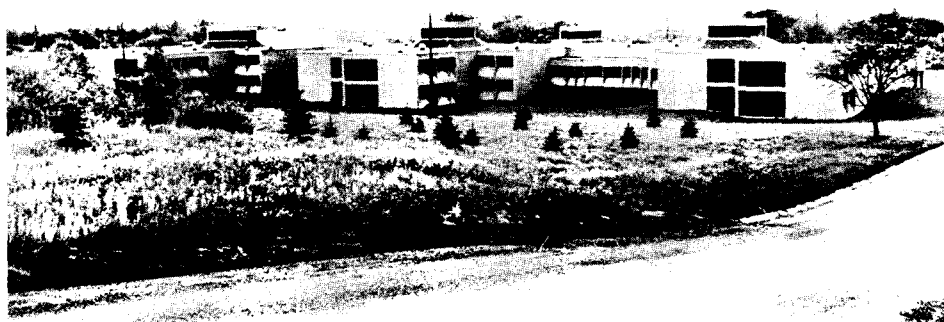
they had a mental illness, of course, but I never feared for my safety. I never really was attacked. There was one guy — luckily he had a guard on either side — he reached out and choked me. The guards stopped him. And I didn't punish him; we went over to a corner of the ward and talked about why he did that, why he choked me. We got to be good friends."

There is a full-time psychiatrist on the staff, now. "First time ever!" crows Dr. Sheppard — and the new Medical Director will be a psychiatrist, Dr. Brian Gottlieb. "I'm sure the hospital will be in good hands. And I'm very glad that I will have had these three months in the new building. It would have been hard to leave, otherwise."

About 150 patients moved up the hill to the new facility in June, and almost 200 staff members. Spread over three acres, the new hospital cost \$9.5 million. "I've written to the welfare commissioner and asked permission to push the plunger when they blow the old place up," says Dr. Sheppard, with a straight face. "Seems to me it's the least they could do."



New St. Peter State Hospital campus



30s

Harold G. Scheie, M.D. ('35), D.Sc. ('40), was honored by the Philadelphia City Council, on May 13, 1982. Born on a farm near Warren, Minnesota, Dr. Scheie put himself through medical school during the Depression and became the first resident in ophthalmology at the University of Pennsylvania School of Medicine. He is the founder of the Scheie Eye Institute, Philadelphia, which houses the Department of Ophthalmology and is part of the University of Pennsylvania Medical Center. Members of the Philadelphia City Council presented him with an embossed copy of their resolution citing his "contribution to the welfare of the people of Philadelphia and the world and his accomplishments in the field of ophthalmology."

40s

Philip Y. Paterson ('47), a microbiologist, neuroimmunologist, and specialist in infectious diseases, who is currently Head of the Department of Microbiology-Immunology at Northwestern University Medical and Dental Schools, Chicago, has been named the first Guy and Anne Youmans Professor of Microbiology-Immunology. The Youmans professorship honors Dr. Guy P. Youmans, professor emeritus and former department chair in microbiology at Northwestern, and his wife, Dr. Anne Youmans, who served as his research associate for more than 30 years.

Dr. Paterson came to Northwestern in 1965 as chief of the infectious diseases section. In 1975, he was named to the department chair in microbiology-immunology.

The author of nearly 200 scientific publications, Dr. Paterson serves on the editorial boards of eight journals and is associate editor of the *Journal of Infectious Diseases*.

Troy G. Rollins ('46), clinical professor of dermatology at Oregon Health Sciences University, Eugene, was honored by the Oregon Alumni Association with a meritorious achievement award for outstanding contributions to the School of Medicine, at the Sumner Memorial Lectureship Meeting in the spring of 1982.

50s

Dale D. Lindholm ('57) has been in the private practice of nephrology and internal medicine since 1979, with offices in Scranton and Moscow, PA. He serves on the faculty of the Scranton-Temple University Internal Medicine Residency Program and is a member of the American Society of Nephrology and the American Society for Artificial Internal Organs. Dr. Lindholm has more than 40 publications, mostly in the areas of uremia disorders, dialysis problems, biocompatibility of synthetic materials, and urinary microscopy. He and his wife, Dolores, have two children: Cyndi, 16, a high school junior, and Ron, 23, a graduate of the University of Scranton who is in Baptist seminary training.



Dale D. Lindholm

George Skaff ('59) finishes his term this summer as chief of the medical staff at Kaweah Delta Hospital, Visalia, California. Two other Minnesotans serve with him there: Tom Johnson, executive director, and Judith Berg, M.N., director of nursing.

60s

Ron Guttman ('61), professor of medicine at McGill University and Director of the Royal Victoria Hospital Transplant Service in Montreal, recently returned from a month-long visit to China as a consultant for the World Health Organization. Under the auspices of a United Nations Development Program, Dr.

Guttman conducted a two-week course at the Peking Medical College for 67 physicians, who came from 25 of China's 30 provinces, sponsored by the ministry of public health. He also visited and lectured at medical schools in Xian and Shanghai.

His wife, Dagmar, accompanied him, and she lectured at the three medical schools to the faculties of the departments of English, on the subject of modern methods of second language instruction. On their way back to Canada, the Guttmans stopped in Paris, where Dr. Guttman was an invited speaker at a symposium honoring Prof. Jean Hamburger, "the father of nephrology" in France and Europe.

Harold J. Hofstrand, M.D. ('69), Ph.D. (Anatomy, '71), has been named director of emergency services at St. Paul Children's Hospital. He served a residency in pediatrics at the University of Colorado Medical School and was an NIH Fellow at the National Cancer Institute, Bethesda, for two years. Dr. and Mrs. Hofstrand live in St. Paul and have two daughters, both of whom attend Carleton College in Northfield.

Vincent R. Hunt ('60), chief of the department of family practice at St. Paul-Ramsey Medical Center, recently helped to develop the first family practice residencies in Bahrain and the American University in Beirut. After spending a one-year sabbatical in the Middle East, Dr. Hunt was asked to return to Bahrain and Lebanon periodically to help guide the program.

Ross Olson ('67) has completed a term of missionary service and is now practicing pediatrics with Group Health, Inc., in the Twin Cities. He finished pediatrics training during a two-year furlough here. Wife Karin and family are relocated in Minnesota after several years spent in Hong Kong.

70s

William H. Reid ('70) is currently associate professor of psychiatry and clinical research coordinator of the Nebraska Psychiatric Institute, University of Nebraska College of Medicine, Omaha. His sixth book, *Violence in Medical Facilities*, co-edited with John Lion, will be published this summer.

In Memoriam

John G. Freeman ('44), former medical director of two California state hospitals, died on Sept. 30, 1981. After interning at Miller Hospital in St. Paul, Dr. Freeman entered Mayo Graduate School of Medicine in 1944 as a fellow in neurology and psychiatry, served in the Army, and later practiced in Minnesota, Nebraska, and Montana before settling in California.

David Gavis ('37), director of surgical education at Mt. Sinai Hospital in Minneapolis and longtime Minneapolis surgeon, died on April 12, 1982. Survivors include his wife, daughter, and son, Dr. James Gavis ('68), a Minneapolis plastic surgeon.

Esther M. Greisheimer ('23), who taught physiology at the University of Minnesota Medical School when Elias Potter Lyon was its Dean, died on March 9, 1982, in Rydal Park, Pennsylvania, at the age of 90.

A Pennsylvania native, Dr. Greisheimer attended college at the University of Ohio and received her B.S.; she earned an M.S. from Clark University, and a Ph.D. in physiology from the University of Chicago before coming to medical school at Minnesota. She became professor of physiology and anesthesiology at Women's Medical College in Philadelphia in 1935 and joined the faculty of Temple University's School of Medicine in 1944.

Dr. Greisheimer wrote approximately 150 contributions to the professional literature and in 1972 co-authored *Physiology and Anatomy* with another Temple professor; the textbook is now in its ninth printing. In 1980, she was elected to the Ohio Women's Hall of Fame. She was active in many professional and honorary societies, and an Esther M. Greisheimer Memorial Fund has been established to provide financial aid for women medical students at Temple University School of Medicine.

Orville J. Johnson ('28) died on March 12, 1982, in Edina. He was retired from the practice of psychiatry.

John M. Leonard ('64) died on April 3, 1982, at the age of 42, while in Hawaii. His death was caused by a heart attack.

Daniel A. MacDonald ('09), for many years associated with Lutheran Deaconess Hospital in Minneapolis, at one time chief of surgery there, and since 1967 honorary president of its medical and surgical staffs, died after a long illness in the hospital, now called Fairview Deaconess, on May 4, 1982, at the age of 95. Dr. MacDonald served as first lieutenant in the Army Medical Corps during World War I. He was among the oldest living graduates of the Medical School.

Donald C. MacKinnon ('32) died in May, 1982, in Naples, Florida, where he was retired from the practice of general surgery. He had been active in the Minnesota Medical Association during his professional career in Minneapolis.

Gerald T. Mullin, Sr., powerful advocate of the University of Minnesota in the state legislature and past president of Minnegasco, died on April 28, 1982. He served 27 years in the legislature and was a major influence on the Medical School's building program, including construction of the Mayo building in the early 1950s. In 1957, he was given the first Regents' Award bestowed by the University for his tireless support, which included fund-raising for the Minnesota Medical Foundation. He is survived by his wife, Ruth; two daughters; and two sons, one of them, Dr. Gerald T. Mullin, Jr. ('58), a Minneapolis rheumatologist.

Wallace I. Nelson ('27), a general surgeon, died on May 11, 1982. He was still serving on the staffs of Eitel Hospital

and the Nicollet Clinic, Minneapolis, at the time of his death.

Paul R. (Dick) Pedersen ('66) was killed in a traffic accident near Minneapolis on April 26, 1982, at the age of 41. An internist, Dr. Pedersen was a member of a group practice in Mound, Minnesota, and he also saw patients in Waconia and at the Masonic Home in Bloomington.

Abraham B. Rosenfield ('24) died on May 11, 1982, at the age of 84. He was past director of special services of the Minnesota State Board of Health and a major (retired) in the U.S. Army Medical Corps and had been an important figure in Minnesota public health circles for many years.

Margaret L. Stevenson ('42) died on July 31, 1981, in Alhambra, California, of cancer. She had practiced obstetrics and gynecology in Alhambra from 1948 until her illness necessitated the closing of her office in 1972.

Rodney F. Sturley ('37), former clinical associate professor of obstetrics and gynecology in the Medical School, died on March 15, 1982, in Sun Valley, Idaho, at the age of 68. He had practiced obstetrics and gynecology in St. Paul for many years.

Bertram L. Trelstad ('32) died on May 18, 1982, in Salem, Oregon, at the age of 77. Born in Menomonie, Wisconsin, he graduated from St. Olaf College in Northfield, then taught high school science before studying medicine. He practiced family medicine in California until 1941, when he entered the US Army. He was discharged with the rank of major in 1945, and the Trelstads moved to Oregon in 1946. He is survived by his wife, Adelaide, three sons, two of whom are doctors, and two step-daughters.

George E. Williams, Assistant Dean for Student Affairs and Admissions at the University of Minnesota Medical School, died on March 31, 1982, at the age of 61, after 27 years of service to the University. A psychiatrist who enjoyed close personal relationships with both students and colleagues, Dr. Williams early recognized the need for on-campus counseling services, and he founded a student-support program in 1960. In the 1970s, he helped to launch the Program in Death Education and Research at the university, and he served on its board of directors until his death.

A native of Fenimore, Wisconsin, Dr. Williams attended St. Louis University School of Medicine and served his residency at the V.A. and University Hospitals in Minneapolis. From 1946 to 1948, he served as captain in the U.S. Medical Corps.

Dr. Williams first became involved in public health in 1950, when he established the Zumbro Valley Mental Health center in Rochester, Minnesota, and also was a consultant in psychiatry at the Mayo Clinic, specializing in child development. In 1955, he was appointed associate professor in the Medical School jointly in the Department of Psychiatry and the School of Public Health.

Throughout his involvement on campus, Dr. Williams also maintained a practice in downtown Minneapolis where, among other patients, he counseled and treated many members of Catholic religious orders. A consultant to Catholic Charities, he supervised treatment of patients under its auspices.

His widow, Mrs. Alice Williams, and other family members have established the Dr. George E. Williams Memorial Scholarship Fund. Contributions may be sent to the Fund through the Minnesota Medical Foundation, Box 193, Health Sciences Center, University of Minnesota, Minneapolis, MN 55455.



George E. Williams
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We Need Your Help!

For the 1982 edition of the *University of Minnesota Medical Alumni Directory* we need to update and correct our records. You can help us to find your classmates and friends. Some may have died; others have moved; others have changed their names. If you know the current address of any of the following alumni, please get in touch with Kay Geoffrey, room 535, Diehl Hall, University of Minnesota, Minneapolis, MN 55455; (612) 373-8023. Thank you!

For these alumni, the last address we have is not correct:

1940

Carl A. Hanson
330 South St.
Waterloo, IA

1943

Erling G. Hestenes
Mission Hospital — Zululand
Hlabisa, Rep. of South Africa

Clinton F. Snyder
Edgewood Arsenal, MD

Lawrence G. Thouin
1620 West Ave. S.
Lancaster, CA

1944

Joseph P. Belshe
5025 Garfield S.
Mpls., MN

1948

Alexander M. Boysen
523 G Murphy Circle
Ft. McPherson, GA

Joyce S. Lewis, Jr.
San Diego, CA

1959

Wilfred A. Corson
Firland Sanatorium
Seattle, WA

1962

Jay T. Ballhagen
3100 S. Sheridan Blvd.
Denver, CO

Charles S. Ostrov
Cincinnati General Hospital
Cincinnati, OH

1963

David B. Youel
159 D E. Pike St.
Pontiac, MI

1964

James D. Lehmann
Parkland Memorial Hospital
Dallas, TX

R. H. Richardson
229 Arthur SE
Minneapolis, MN 55414

1965

Gerald C. Peterson
Peace Corps
Caracas, Venezuela

Wallace A. Rogers
Parasitology Unit
Center for Disease Control
Atlanta, GA

Calvin L. Strand
Hennepin County Medical Center
Mpls., MN

For these alumni, we have no addresses:

1909

J. J. Buckley
W. P. Olson
A. L. Vadheim
L. Van Deboget

1910

J. J. Petit
E. M. Watson

1931

Paul L. Eneboe
M. Shaw
C. G. Wingquist

1932

L. L. Freidman

1933

R. C. Paulson
C. S. Tierney

1934

R. B. Boetiner
S. Mullin

1935

Herbert A. Blumenthal
D. N. Rudin

1936

C. J. Bell

1937

C. M. Biddle
R. A. Globe
H. Katzovitz
A. E. Miller
W. W. Wood

1938

R. A. Collins

1939

William Birnbaum
A. M. Nielson

1940

Betty J. Hall Taylor

1943

I. L. Gilinsky
J. Neander
O. Rotnem
P. Russell
A. Welte

1944

P. Lawson
D. Peterson

1945

P. Jewsbury
J. McFie

1946

B. Levin
J. Locken
H. Peir Stevenson

1947

C. Paterson

1949

A. H. Tallakson
W. Woltjen

1953

R. D. Pugsley

1957

W. J. Anderson



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— John Masefield, 1878-1967