

# MEDICAL BULLETIN

UNIVERSITY OF *Minnesota*

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*in this issue*

- THE CLASS OF 1943 (DECEMBER)
- DONALD CHURCH BALFOUR
- QUALITY CONTROL
- HEMOCHROMATOSIS

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## Alumni Survey



### CLASS OF DECEMBER, 1943

*Like the Class of March, which shares the year 1943 in Medical School annals, the Class of December, 1943 vanished almost entirely into the Armed Forces after completion of Medical School and internships. After the War, nearly all of the 109 members in the Class returned to civilian life and scattered into the various specialties. Twenty-five members of the class took up general practice, 18 began training as internists, 13 specialized in surgery, 10 took up pediatrics, and others chose such diversified fields as industrial medicine, the mission field, and career military medicine. In all, 18 different specialties are represented in the survey conducted for this article.*

*Four members of the Class are deceased and of the remaining 105, the MEDICAL BULLETIN heard from 89. The 89 listed the surprising total of 322 children (average of 3.6 per man) among them. William H. Trow of Minneapolis leads the family derby with 11 children, equaling the largest known family among the Medical School's 5,000 living graduates. V. Richard Zarling, also of Minneapolis, is the father of ten, and there are two families in the Class with nine children each.*

**Forrest H. Adams** is professor of pediatrics and vice-chairman of the Department of Pediatrics at the UCLA Medical Center, Los Angeles, Calif. He received all of his formal medical training at the University of Minnesota and is the author of about 100 scientific papers. He moved to California in 1952. Married to the former Ruth Mary Pickhardt, Forrest has eight children; Judd, 20; Scott, 18; Mark, 15; Gregg, 13; Eric, 11; Brent, 9; Kurt, 7; and Lynn, 5. They make their home at 3327 Sumac Ridge Drive, Malibu, Calif.

**William J. Alcorn** has been in solo general practice in Wabaso, Minn., for the last 15 years, where, in December of 1963, "I delivered my 1001st baby." He and his wife, Lois, have two daughters, Judith, 20, in nurses training at the U. of Minn.; and Susan, 12; as well as three sons, Mike, 15; Patrick, 13; and Robert, 11. He served with the Army in the Pacific during World War II.

**Arnold S. Anderson** is a pediatrician with the St. Louis Park Medical Center and also teaches at the University. With his wife, Rusk, and nine children, Renner, 17; Jeffrey, 16; Kimball, 14; Lucinda, 12; Susanna, 11; Whitney, 9; Tyler, 8; Colin, 6; and Amy, 3, he makes his home at 4600 Browndale Road, Minneapolis.

**Harold J. Anderson** has been in general surgery practice in Austin, Minn. since 1951. Before going to Austin he took a residency at Hennepin County General Hospital and served in the Army Medical Corps. He is married to the former Hazel Moren and is the father of John, 18; Larry, 16; Carol, 13; Kristin, 9; and Daniel, 5. Home is 400 19th St. S.W., Austin, Minn.

**Milton W. Anderson**, on the staff of the Mayo Clinic since 1944, is also an associate professor of medicine at the Mayo Foundation. His special interest is cardiology. He and his wife, Charlotte, live at 822 9th Ave. S.W., Rochester, with David, 21; Daniel, 16; Richard, 14; Milton, Jr., 13; Mary, 11; and Joel, 8.

**Alan M. Avrick**, in general practice in California for the last 15 years, is married to the former Ruth Coleman of Erie, Pa., and is the father of Michael, 17; Joady Lee, 16; and Bill, 15. The family lives at 1871 Earlmont Ave., La Canada, Calif. Alan describes himself as "a hard-working family doctor who takes frequent short post-graduate courses, plays bridge each week, and enjoys living in California."



MILTON ANDERSON



MAXWELL M. BARR



FORREST H. ADAMS

**Maxwell M. Barr** has been in obstetrics-gynecology practice in Minneapolis for the last 14 years and is currently president-elect of the Mt. Sinai Hospital medical staff. He and his wife, Ethel, are the parents of Ronald, 19; and Candy, 17. Max was a captain in the Army Medical Corps and lists his hobbies as hunting and fishing. He is also interested in the Planned Parenthood movement. The family lives at 4906 W. 27th St., Minneapolis.

**Kenneth L. Bauman** has practiced general medicine and surgery at the Grant Community Clinic in Lancaster, Wis., for the last 14 years. In the service from 1946-48, he took a three year surgery residency. With his wife, Ada, and children, Barbara, Kenneth, Jody, and Kim, he lives at 350 N. Fillmore in Lancaster.

**Donald E. Bergan** is a full time staff physician in the V.A. Center in Fargo, N.D. Single, Don holds the rank of Lt. Col. in the Army Medical Corps Reserve and has served both in the U.S. and Alaska. He took his present post five years ago, and teaches at the University of North Dakota Medical School.

**Harry L. Berge** is in general practice in Mora, Minn.

**V. Lorel Bergeron** is in practice as a plastic surgeon in San Francisco, Calif.

**Gaylord W. Boom** practices general medicine and surgery in Oroville, Calif.

**Robert J. Brimi**, 4132 Forest Glen Drive, Knoxville, Tenn., practices internal medicine with two other internists and teaches at the University of Tenn. The entire family; wife Hazel, and John, Barbara, Robert, Mary Kay, Paul, Elizabeth, Carol, Patricia, and William, enjoy the many recreational and cultural facilities around Knoxville. Son John, 19, is in pre-med and Bob feels the courses are much tougher now than when he was in school. He stresses one of the advantages of life in East Tennessee, TVA-land: few mosquitoes. Bob is also grateful to the Medical School for his training. He comments: "When people you meet anywhere learn that you trained at Minnesota, you are automatically placed on a level with



ROBERT J. BRIMI

the best!"

**Philip L. Blumenthal** practiced general medicine for 12 years in Mandan, N.D. He practices in San Jose, Calif., and with his wife, Eileen (a former nurse) and Mary Kay, Christopher, Casey, and Martha, lives at 19797 Lanark Lane, Saratoga, Calif. "After years in the north country we dearly love the opportunities available for recreation, culture, and education in the San Francisco Bay area," he writes. Tennis is his favorite sport.

**Paul M. Brickley** is deceased.

**Catherine Burns** is in part-time general practice with the St. Louis Park Medical Center in Minneapolis. She married Clifford Lusk of Grand Marais, Minn., and they have adopted twin daughters, Barbara and Betty, age 10. Catherine is an inveterate traveler, having led tour groups in five trips to Europe, three trips to Alaska, and in 1956, she took a trip around the world. She formerly practiced in Albert Lea, Minn., and at the University of Minnesota Health Service. She now lives at Rte. 2, Excelsior, Minn., (Box 242-A).

**Edgar C. Burseth** is in general practice in Mora, Minn., with two other physicians. He has been in Mora for 13 years and served in the Air Force for two years before going into practice. He and his wife, the former Dorothy Nyquist of St. Paul, and their three teenage children, John, James, and Judy, enjoy small town family living.

**Lester W. Carlander** is in private practice in Minneapolis and is also a clinical assistant professor of orthopedics at the University. He and his wife, Anne, and five children are active in school, community and church activities and enjoy summer and winter recreation opportunities available in Minnesota. They make their home at 6800 Indian Hills Road, Minneapolis.

**Mentor H. Christiansen** is in solo orthopedic surgery practice in Colorado Springs, Colo. He and his wife, Laura, are the parents of two daughters, Sarah, 8, and Martha, 6. Their home address is Red Spring Valley, Colorado Springs.

**Kenneth L. Covey**, after 11 years in general practice in Mahanomen, Minn., took a residency in orthopedic surgery at the Mayo Clinic and is now associated with the Northwestern Clinic in Crookston, Minn. He and his wife Grace are the parents of five children (see photo). The family lives at 908 Thorndale Avenue, Crookston, where Ken enjoys ham radio and gardening as hobbies.



DR. AND MRS. KENNETH L. COVEY AND THEIR CHILDREN,  
(L-R), ELIZABETH, MARK, JANE, CHRISTINE, AND CATHERINE

**James H. Crowley** is an anesthesiologist in St. Paul, Minn.

**Lester N. Dale** is in solo general practice in Red Lake Falls, Minn., and has been legislative representative for the Minnesota State Medical Association for the last eight years. He served in the Marine Corps for two years and married Glee Nelson of Princeton, Minn. They are the parents of four children. Les formerly owned radio station KDLM in Detroit Lakes, Minn. and has other business interests.

**John W. Dougherty**, 15 Anteith Road, Scarsdale, N.Y. practices dermatology and is an assistant professor of dermatology at Cornell University. He saw service in the Pacific with the Army and is married to Wilma Dobie of New York City. They have three children, William, 15; Mike 11; and Anne, 6.

**Sanford G. Egge** has been in general practice with the 10-man Albert Lea Clinic for the last 16 years. He served in the Army for two years in the Philippines and the South Pacific. Married to Borgny Bronken of Colfax, Wis., and father of Jeanne, 13; Paul, 11; Linda, 9; and John, 7; he was Freeborn County coroner from 1950-58. He enjoys golf, hunting and fishing. The family home is at 307 Lee Circle, Albert Lea, Minn.

**Ralph L. Estrem** is an internist at the Park Region Clinic, Fergus Falls, Minn.

**Irving F. Enquist** is a fulltime professor of surgery at S.U.N.Y. Medical School in Brooklyn, N.Y. He took his residency at the University of Minnesota and served in the Army Medical Corps for two years. He met his wife Mildred at Minnesota, and enjoys his present post, but "begrudges the time I'm forced to spend commuting to work" from his home at 168 Dogwood Lane, Manhasset, N.Y. He has three children, Kristine, 14; Erik, 10; and Rolf, 7.

**Ove A. Erdal** is in general practice with the Albert Lea, Minn. Clinic and has been there for 15 years. From 1944-46 he was in military service. He and his wife, Roberta, are the parents of Ove Thomas, 14, and Jean, 8, and live at 1516 Oakwood Drive, Albert Lea.

**John D. Ewing** is a surgeon in Omaha, Neb. and a clinical assistant professor of surgery at Creighton University School of Medicine. He served in the Army Medical Corps from 1944-46. He and his wife, Virginia, a native of Nebraska, enjoy golf, fishing, and hunting. They live at 10614 West Center Road, Omaha. A special field of interest for John is sports injuries.



GEORGE M. FIRESTONE AND FAMILY

**George M. Firestone** has been an internist in Santa Rosa, Calif., since 1949. He took his residency in Salt Lake City, Utah and at the Minneapolis VA. He and his wife, Betty Ann, have three sons, Bill, Don and Bob, (see photo) and all enjoy the out-of-doors. George dabbles in wood-carving and painting and considers his chief problem to be "getting that 25th hour in each day."

**Louis B. Folsom** practices occupational medicine with the Northwest Industrial Clinic in Minneapolis. He served in the Army Medical Corps from 1944-46 and again in the Korean Conflict. He and his wife, Marjorie, (from International Falls)

live at 10018 South Shore Drive, Minneapolis, Minn.

**John G. Fee** practices internal medicine in partnership with Dr. Donald E. Derauf in St. Paul and is a clinical associate professor at the University. He was formerly associated with the Earl Clinic in St. Paul. He and his wife are the parents of twin sons, John and Robert, 20; Nancy, 13; and Tom, 9. All are avid golfers and skiers. They make their home at 261 Mt. Curve Blvd., St. Paul, Minn.

**William M. Feigal** is a urologist with the Lakeside Clinic in Fairmont, Minn. He has been there since 1948 and is married to the former Marian Marks of Chisholm, Minn. Their children are Larry, 18 and a freshman at Gustavus Adolphus; Patti, 9; Connie, 8; and Lisa, 4. Bill's practice covers nine hospitals in southern Minnesota and northern Iowa. He describes himself as a "rockhound and numismatist."

**John G. Freeman** is assistant superintendent at the Stockton, Calif., State Hospital and was formerly on the psychiatry staff at the University of Nebraska. Single, John served in Japan with the Army from 1945-47 and now resides at 705 North Stanislaus Street, Stockton, Calif. His residency in psychiatry was at the Mayo Foundation.

**Alice Gamble Beard** is an associate professor of pediatrics at the University of Arkansas Medical School in Little Rock and is married to Dr. Owen W. Beard. They have three children, Margaret, 14; William, 16; and Barbie, 5. Alice is doing research in newborn metabolism. "I feel very fortunate to have been able to combine two careers, homemaking and medicine," she writes. The Beards live at 7008 Rockwell Road, Little Rock, Ark.

**Robert W. Gibbs** is in solo practice as a pediatrician in Minneapolis. He and his wife, Margaret, are the parents of Robert, 18; Patricia, 17; Sandra, 15; Frederic, 14; Thomas, 11; Timothy, 8; and twins Patrick and Michael, 2. The family lives at 5133 17th Ave. So., Minneapolis. Bob is on the clinical teaching staff at the Medical School.

**Erwin D. Goldenberg** is chief of the department of pediatrics at the Southern California Permanente Medical Group in Los Angeles. During the last 15 years he has also been associate clinical professor of pediatrics at the U.S.C. The family, including his wife, Charlotte, and three children, Carole, 13; Thomas, 11; and Amy, 7; enjoys skiing and fishing. Their home is at 600 Tuallitan Road., L.A.

**Thomas P. Glynn** has been a staff radiologist at Mercy Hospital in Hamilton, O., for the last 14 years, and was an instructor at Wayne State University Medical School from 1945-46. Tom is married to Rita Kelly of St. Paul. They have seven children: Thomas, Kathleen, twins Molly and Theresa, Peggy, Mike, and Terry. They live at 3535 Hamilton Cleves, Hamilton.



THOMAS P. GLYNN



WILLIAM M. FEIGAL

**Neill F. Goltz** practices otolaryngology with the Fargo Clinic in Fargo, N.D. He spent 1953-54 with the Army in Japan, now spends "most of the day getting our seven kids in or out of skiing or skating clothes." Neill's wife is the former Deborah Donnelly of St. Paul. They are parents of Neill, 10; Tom, 9; Ed, 8; Martha, 6; Julie, 5; Stan, 3; and Vince, 1. He adds, "Dad and Mom escape to the Rockies every winter for adult skiing. All of us enjoy our lake cottage during the summer." They live at 804 8th Street South, Fargo, N.D.

**Jack Gordon**, 4867 Sunset Blvd., Los Angeles, Calif., has practiced pathology with the Permanente Medical Group for the last 11 years. He served in the Army Medical Corps after graduation from the University and married Rhoda Gitis of Minneapolis. They have two children, Susan, 16, and Steven, 13.

**John C. Hays** is associated with the 20-man Colorado Springs Medical Center as an internist and cardiologist, and, since 1952, has been on teaching staff of Penrose Hospital in Colorado Springs. He took a residency at Hennepin County General and the V.A. Hospitals in Minneapolis, and was a captain in the Army Medical Corps. He married Beverly Ann Rydeen of Stillwater, Minn., and is the father of three boys, Jack, 17; Mark, 14; and Keith, 6. John is co-author of the 1963 Colorado Springs Lipid Project on 500 high school students and serves on the executive committee of the Colorado Heart Association. The family home is at 19 Upland Road, Colorado Springs, Colo.

**Arthur M. Hall** was in general practice in Minneapolis for three years before going to the Hlabisa Mission Hospital in Zululand 12 years ago. Dr. E. G. Hestenes (Mar. '43) preceded him there in 1948 and is now his colleague. Hlabisa Mission Hospital serves about 35,000 Bantu natives and the doctors average about 240 patients per day. There are no other white men near so "all problems of building, electricity, and plumbing are necessary hobbies." Arthur's wife, Margaret, and Marcia, David, Joanne, and Robert (see photo) all enjoy occasional trips to the nearby game preserves. The Halls may be reached at Hlabisa Mission Hospital, Zululand, Republic of South Africa.



ARTHUR M. HALL AND FAMILY

**William B. Halme** took a residency in obstetrics-gynecology at Chicago Lying-In Hospital, served in the Army from 1953-55 in Japan, and, since 1951, has been in solo general practice in Wadena, Minn. His wife, Helene, was from Henning, Minn. They have a daughter, Mary, 13, and a son, Dan, 11. Bill enjoys outdoor sports and likes to paint in oils.

**Edward D. Henderson** is in orthopedic surgery at the Mayo Clinic in Rochester, Minn. With his wife, Betty, (from Crookston, Minn.) he has three children: Edward Jr., 18; JoAnn, 16; and Peter, 11. Ed was a Travelling Fellow to Great Britain in 1957 for the American Orthopedic Association and also saw duty in the Army Medical Corps before going to Rochester in 1952.

**Roxie M. Holland-Moritz** practices pediatrics and is a part-time instructor in microscopic anatomy at the University of Michigan Medical School, Ann Arbor, Mich. She is the mother of three sons, Bruce, 10; Mike, 8; and David, 4½. Her husband is Erwin Holland-Moritz. Roxie writes, "We hope to have a children's hospital here someday." The family skates and skis whenever possible. They live at 2920 Valley Drive, Ann Arbor.

**Roy G. Holly** is vice-chancellor for Graduate and Professional Education and Research, and dean of the Graduate College of the University of Nebraska, Lincoln, Neb. He formerly was chairman of the Department of Obstetrics and Gynecology and remains on the staff. He received his Ph.D. from Minnesota in 1952 and together with his wife, Cynthia, and children, Phillip, 19; Carol, 16; and Hugh, 13; lives at 2330 Woodsdale Blvd. in Lincoln.

**Howard L. Horns** is an internist in Minneapolis.

**C. Laurence Johnson** has been a partner in urology practice in Kansas City, Mo., for the last 16 years and is a clinical associate professor of surgery at the University of Missouri. He and his wife, Betty Lou, have one daughter, Judith, 20, and live at 729 S. 53rd, Kansas City, Kansas. Laurence says he's "still singing."



C. LAURENCE JOHNSON



KENNETH JOHNSON

**Kenneth J. Johnson** served in the Army Medical Corps from 1944-46 in combat on Okinawa before taking up the practice of allergy with the Quain and Ramstad Clinic of Bismarck, N.D., 13 years ago. He and his wife, Adele, a registered nurse, have three sons, Norton, 17; Perry, 15; and Bruce, 14. all Eagle Scouts; and a daughter Xanthe, 12. The whole family enjoys camping and visiting national parks. Home at 216 Tower Avenue, Bismarck. Ken has published nine scientific papers in the last three years.

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**Edward A. Johnson** is in general practice at the Milbank Clinic in Milbank, S.D., and saw service with the Navy from 1943-46. He is active in civic and church affairs and lives at 101 Park Street, with his wife, Elsie, and Rosann, 19; Alan, 16; Larry, 15; Mark, 12; and Steven, 11. (See photo) Ed was president of the Milbank School Board for seven years and his wife is 1963 president of the Women's Auxiliary, South Dakota State Medical Association.



EDWARD A. JOHNSON AND FAMILY

**Paul R. Johnson** is medical director at the Klamath-Trinity Hospital on the Hoopa Indian Reservation in Hoopa, Calif. After September of 1964, however, the Johnsons will be "in retirement in Napa, Calif., until something more challenging beckons." With his wife, Violet, (see photo), Paul plans a trip to Europe in 1964 and hopes to be welcomed back in the fall by his daughter June, son Donald, and 11 grandchildren. June is married to Werner Anderson (Med. '44) Brainerd, Minn.



MR. AND MRS. PAUL R. JOHNSON

## THE MEDICAL BULLETIN

**Reinald G. Johnson** has been in general practice at the St. Louis Park, Minn. Medical Center since his release from the Army in 1948. With his wife, the former Margaret Baird and five children, Douglas, 19; Barbara, 17; Roger, 16; Lila, 13; and Lyle, 8; he makes his home at 2644 Toledo Ave., St. Louis Park.

**George T. Joyce** has spent the last 13 years in Mason City, Iowa, as a pathologist with St. Joseph Mercy Hospital and Park Clinic Hospital. He took a residency at the Mayo Clinic in Rochester. He served in the Army from 1946-48 and lives at 259 North Crescent Drive, Mason City, with his wife, Florence, and two daughters, Roberta, 13, and Elizabeth, 9.



HOWARD KALIHHER



HELEN L. KNUDSEN



LYLE W. KORUM

**Howard Kaliher** is in general practice in Tillamook, Oregon, and is married to Muriel Schermer, a former nurse at the University of Minnesota. Their children are Patty Lu, 18; Larkin, 16; and Teri, 14. Howard is active in many church and "Y" activities and in 1953 was voted "First Citizen of Tillamook County."

**Kenneth L. Kelley** is in the Marine Corps at Camp Pendleton, Calif.

**Daniel W. Klein** is in general practice in Burgin, Ky.

**Helen L. Knudsen** is a lecturer at the School of Public Health at the University of Minnesota and is presently director of the Division of Hospital Services of the Minnesota State Health Department, located on the campus. Helen recently received the American Hospital Association's Honorary Membership Award. She lives at 2101 E. River Road in Minneapolis, is a past president of the American Association for Hospital Planning, and has five degrees from the University. She was recently named "Medical Woman of the Year" by the American Medical Women's Association.

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**Lyle W. Korum** is in general practice in Detroit, Michigan, and is president of the Michigan Academy of General Practice as well as chief of staff at Anderson Memorial Hospital. He saw service in India in World War II before going into practice 16 years ago. With his wife, Margaret, and Constance and David, he lives at 813 Balfour Road, Grosse Pointe Park, Mich.

**William R. Kueffner** settled in Fairfield, Conn. as a pediatrician 15 years ago after serving with the Army in Italy from 1945-47. His wife, Nancy, is from England, and last summer the entire family, Bruce, 18; John, 14; Paul, 9; Eric, 8; Carl, 6; and Chris, 3; enjoyed a six-weeks trip to England, France, Spain, and Portugal. The Kueffners live at 36 Old Academy Road, Fairfield, and often sail along the New England coast or go skiing in Vermont.

**Douglas D. Kusske** practices otolaryngology in St. Paul, Minn.

**Samuel J. Lehman** is deceased.

**Neil N. Litman** is specializing in pediatric endocrinology and renal diseases with the Children's Medical Group in Los Angeles. His wife is Zelda Simon of Ashland, Wis. Their children are Linda, 15; and Lisa, 14; and they live at 5830 Overhill Drive, Los Angeles. He is past president of the Los Angeles Pediatric Society and a clinical associate professor at U.C.L.A.



ROBERT E. LITMAN



JAMES LYNCH



NEIL N. LITMAN

**James Lee Lynch** has practiced dermatology in Santa Ana, Calif., for the last 16 years and teaches at Orange County General Hospital. He took his residency at the Mayo Foundation from 1944-48. Married to the former Mary Brungardt of Lewistown, Minn., he is the father of Laurie, 16; Kathleen, 13; Patrick, 10; Peter, 8; and Susan, 5. The Lynchs live at 1015 River Lane.

**Robert E. Litman**, after service with the Army in Korea from 1945-47, and a residency at the University of Minnesota in neurology, is presently a clinical professor of psychiatry at the U.C.L.A. Medical Center and in private practice. He is married to Connie Altman of Minneapolis and has two daughters, Kathy, 10, and Jane, 8, and a son, Joe, 3. Bob is chief psychiatrist of the Los Angeles Suicide Prevention Center, a research project supported by a N.I.H. grant. The Litmans make their home at 9400 Brighton Way, Beverly Hills, Calif.

**Paul H. Lober** is an associate professor of pathology at the Medical School, and is in charge of the Surgical Pathology Laboratory at University Hospitals.

**Sam M. Mackoff** has practiced as a dermatologist and allergist for the last nine years in Phoenix, Ariz. With his wife, Selma, and four daughters, Valerie, Barbara, Cora, and Mavis, he lives at 5543 N. 23rd St. and writes, "I'm still allergic, even in Arizona." He served in the Air Force during the Korean War.

**Frank E. Martin** practices internal medicine with two other physicians in Minneapolis and is a clinical assistant professor at the Medical School. He served in the Navy from 1944-46 and again in 1950-51. Married to the former Laura Ann Duxbury of Minneapolis, he is the father of Bill, 14; Frank Jr., 5; and Laura Lee, 18 mos. The Martins make their home at 2111 Essex Road, Minneapolis.

**Arden L. Miller** practiced internal medicine in Minneapolis for 14 years before moving to Phoenix, Ariz. two years ago. He is an industrial medicine consultant to several corporations. His wife is Eleanor Gutzman of Crosby, Minn. Their children are Diane, Linda Marie, and Lisa Ann. The Millers live at 4120 E. MacDonald Drive, Phoenix, and enjoy horseback riding, golf, swimming, and photography.

**Zondal R. Miller**, 2161 Upper St. Denis Road, St. Paul, has been in neurology-psychiatry partnership practice with another physician for the last 15 years. He is a clinical professor at the Medical School and took his residency at the University after release from the Navy in 1945. He and his wife, Esther, are the parents of Jeffrey, 17; Leshee, 14; Cheryl, 12; and Mark, 10.

**Harry W. Mixer** was president of the Minnesota Radiological Society 1962-63, and is presently practicing in group partnership in Minneapolis. He served in the Army from 1953-55 and took his residency at the University of Minnesota. He and his wife, Delores, are the parents of Sandra, 18; Bruce, 16; Todd, 13; Rachel, 8; and Scott, 6. They live at 166 Ardmore Drive, Minneapolis. He teaches at the Medical School and is active in AOA and Sigma Xi.

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**Alfred S. Nelson** is chief of medicine at the U.S.P.H.S. Hospital in Memphis, Tenn., and has been a career service officer since 1957. He lives at 360 California Ave., Memphis, with his wife, Evelyn, and Robert, 17; William, 10; and Cynthia, 5.



ALFRED S. NELSON



ARDEN L. MILLER

**Paul R. Nelson** served with the Air Transport Command in Greenland after graduation and then took a residency in pediatrics at the Children's Hospital in Des Moines, Iowa. In 1949 he began a pediatrics practice in Normal, Illinois, where he "has every intention of staying." With his wife, Margaret, and Paul, Mary Beth, and Rebecca Lynn, he enjoys boating, woodworking and golf. ("Got a hole-in-one in September 1961!") The Nelsons live at 1309 Stephens Drive.

**William D. Nessel** has been an internist with the Bloomington-Lake Clinic in Minneapolis for the last 15 years, since leaving the Army where he served from 1946-1948. He is married to the former Mary Masakowski of West Allis, Wis., and has four children: Eric, 17; Carrie, 14; Laurie, 11; and Joan, 7. The Nesses live at 5528 Merritt Circle, Minneapolis, Minn.

**Henry A. Norum**, 801 South Drive, Fargo, N.D., is associated with the Fargo Clinic as a general surgeon. He and his wife, Patricia, are the parents of Paul, 15; Mary Beth, 12; and Sara Ann, 9. Henry took his surgery residency at Marquette University.

**Burton A. Orr** settled in Faribault, Minn. to practice general surgery in 1951, and presently is medical director of the Faribault Clinic. He served in the Army Medical Corps from 1944-46 and now lives with his wife, Rita, and Janice, 13; Cynthia, 11; and William 7; at 635 4th Street S.W., Faribault, Minn.

## THE MEDICAL BULLETIN

**Glenn L. Peterson** was in general practice in Minneapolis prior to undertaking a residency in anesthesiology at the University of Minnesota from 1960-62. He now practices with two other anesthesiologists in Minneapolis. He and his wife, Betty, are the parents of Denise, 17; Becky, 15; Lee, 10; and Kimberly, 2; and live at 4313 Cornelia Circle, Minneapolis.



GLENN PETERSON



ROBERT B. PIERCE



NORTON ROGIN

**Robert Petters** is deceased.

**Robert B. Pierce** has been in general practice for 17 years and is now located in Mountain Lake, Minn. He and his wife, Alma (from Kansas), have one daughter Alma Vane, age 15. Bob served with airborne units in the Far East late in World War II.

**John Regan** has practiced psychiatry in Wayzata, Minn. for 10 years and is a clinical assistant professor at the Medical School. He served in the Navy from 1944-46. Married to the former Lucille Kammerer of Minneapolis, he is the father of Marguerite, 20; Jack, 18; Timothy, 16; Kevin, 13; Christopher, 8; Mary, 10; and Peter, 6. The Regans make their home at 15805 Holdridge Road, Wayzata, Minn.

**Norton Rogin** is a partner in surgical practice with Dr. George S. Bergh (Med. '32) in Richfield, a suburb in Minneapolis. He completed a residency in 1955 at Minneapolis V.A. Hospital. Prior to his residency he practiced general medicine in Farmington, Minn., and was in the Army. He and his wife, Elaine, have five children, Nancy, 14; Joanne, 12; Patricia, 10; Robyn, 8; and Beverly, 3; and live at 7818 Division St., St. Louis Park, Minn.

**Curtis V. Rockwell** is in general practice in Minneapolis.



ROBERT W. RIEMAN AND FAMILY

**Robert W. Rieman** is married to Betty Rowell, a former nurse, and they have two sons, Dick, 14; and Bill, 12; and live at 434 Congress, Ottawa, Ill., where Bob practices internal medicine with seven partners in the Ottawa Medical Center. The whole family loves boating excursions on the nearby Illinois River.

**Philo H. Rockwood** practices obstetrics and gynecology in Fergus Falls, Minn.

**Morris S. Rothnem** is developing an "island home in the north country" during spare moments from his practice of obstetrics and gynecology in Minneapolis. His wife, Lorraine, and Bradford, 19; Susan, 13; and Gregory, 11; share his building enthusiasm. Their present address is 4605 Townes Circle, Minneapolis.

**Orville Rotnem** is deceased.

**Paul Russell** is in practice in San Bernardino, Calif.

**David J. Sanderson** has practiced surgery with the Fergus Falls, Minn. Clinic since 1951. Naval service and a residency at the University filled in the years between graduation and practice. Dave's wife is Margaret Greene (of New Jersey), and they are parents of David, 16; Jane, 13; Steven, 11; Robert, 9; Paul, 7; Julie, 5; and Nancy, 2. Dave enjoys hunting, fishing, and winter sports. The Sandersons live at 202 West Vernon, Fergus Falls.

**Victor M. Sborov** spent five years as the director and chief of the department of Hepatic and Metabolic Diseases at Walter Reed Army Hospital in Washington before going to Redwood City, Calif., as an internist in solo practice. Married to the former Carole Reimers of Glencoe, Minn., he is the father of three children, Susan, 18; Karen, 17; and David, 13. They live at 2105 Ward Way, Redwood City. Victor teaches at the University of California and Stanford Medical Schools.

**Lydia M. Seebach** moved across the bay from Oakland, Calif. to marry Keith Wentz of San Francisco and now is the mother of 3-year-old Brooke, and Scott, 10 mos. She also practices internal medicine and was a resident at the Mayo Foundation from 1945-51. The Wentzs live at 2813 Scott Street, San Francisco, Calif.

**J. Ordie Shaffer**, a general surgeon in Hayward, Calif., attended the Netherlands Cancer Conference in Amsterdam in September, 1963, (see photo) with his wife, Thea (formerly of Red Wing, Minn.). He also spoke at the International Society of Surgery in Rome, Italy, that month. Ordie received his surgery training at Minnesota. During military service 1946-48 he was chief of surgery aboard the Navy hospital ship *Comfort*. The Shaffers have been in Hayward for 12 years and live at 22673 Wildwood St. Their children are Ann, 13; and John, 10. Ordie has been active in the Cancer Society, Kiwanis Club, and Chamber of Commerce.



J. ORDIE SHAFFER

**Marvin J. Shapiro** had a "taste of academic medicine and group practice" and is now settled in private radiology practice in Sherman Oaks, Calif. He and his wife, Phyllis Carter of New York, and Stephen, 16; and Dan, 14, live at 4110 Witzel Drive.

## THE MEDICAL BULLETIN

**Robert D. Semsch** has practiced pediatrics 17 years, the last 10 in Wayzata, Minn. and also teaches at Hennepin County General Hospital. Bob is 1963-64 president of the Hennepin County Medical Society. He and his wife, Mary Jane, live at 13400 McGinty Road, Minneapolis, and are the parents of Daniel, 19; Patricia, 17; Molly, 11; Michael, 16; Kathleen, 13; Joanne, 10; Robert, 7; and Terry, 6.

**John R. Sheehan** is with the Veterans Administration in Portland, Ore.

**Harry Simmonds**, after many years of general practice in Prior Lake, Minn., decided to specialize in anesthesiology and is currently taking a residency at Bellevue Hospital in New York City. He expects to remain there in an academic career. Single, Harry lives at 250 East 30th Street, New York City.

**Alan B. Skorneck** practiced and taught in New England until 1958, when he and his wife, Bernice, with Jeff, 12; and Carolyn, 10; went West to live at 29043 Top Rail Land, Miroloste, Calif. Alan now practices radiology and teaches at UCLA.



P. M. WALSTAD



JOHN P. STAPP



ROBERT D. SEMSCH

**Col. John P. Stapp** is currently deputy chief scientist of the U.S. Air Force, Aerospace Medical Division, and is stationed at Brooks AFB, Texas. He is widely known for his work with rocket sleds and experiments of human tolerance to impact forces. John's wife is the former Lillian Lanese, once prima ballerina with the Ballet Theater of New York. They live on the base. John was recently received in special audience by Pope Paul VI. While in Rome he was elected to the International Academy of Aviation and Space Medicine.

**Jean M. Swain** has been a full time neuropsychiatrist and geriatrist at the State Hospital for the Mentally Ill in Santa Clara, Calif. since 1946. She makes her home at 491 Luther Drive.

**Helene M. Templeton** lives at 6253 50th N.E., Seattle, Wash., and has been in solo general practice there for the last 17 years.

**William H. Trow** has the honor of having the largest family (see photo) in the Class. His six boys and five girls, at home at 337 Sweetbriar Lane, Hopkins, Minn., are Kathleen, Tim, Rose Mary, Pat, Suzanne, Mike, John, Molly, Billy, Mary, and David. Mom oversees the family while Dad is in solo general practice. (Editor's Note: Bill Trow thus ties with Paul Cress (Med. '42) of Marysville, Calif. for the largest known family—11 children—among 5,000 alumni. The Trows also had a 12th child which died.)



THE ELEVEN CHILDREN OF DR. AND MRS. WILLIAM H. TROW

**Clark W. Truesdale** is Mayor of Glencoe, Minn., where he lives with his wife, Marguerite, and JoAnn, Clark Jr., Sarah, and Ward, at 1719 Ford Avenue. Since interning at Miller Hospital in St. Paul, Clark has been in general practice and has been medical director for the Glenhaven Nursing Home and Rehabilitation Center. He likes big game hunting and has made several hunting trips.

**Charles E. Turbak** is a general surgeon in practice in Minneapolis.

**Delmar M. Ulrich**, a Seattle, Wash. internist, says his family is "very enthusiastic about skiing." His sons, Jim, 13; and Dean, 11, are competitive racers while wife, Doris, and daughter Beverly, 15, ski "just for fun." Dad is in solo practice and also teaches at the University of Washington School of Medicine. When they're not off skiing, home is at 5017 N.E. Laurelcrest Lane.

**Robert H. Vadheim** practices internal medicine in New York City.

**Horatio P. Van Cleve** practices general medicine and dermatology at the Austin Clinic in Austin, Minn. and has been there for 14 years. Ray and his wife, Patricia Scherer, together with Edward, Elizabeth, Mike, Scott, Nancy, and Christine are active in church and civic activities. The Van Cleves make their home at 601 20th Street S.W. Ray's first wife died in 1962. He remarried in 1963. He serves on the Austin School Board and is active in the Minnesota State Medical Association.

**Donald J. Van Ryzin** served with the Army in the Philippines and Japan before going into OB-GYN practice partnership with Dr. Martin Wallace (Med. '32) in Duluth, Minn. Don lists his hobbies as gardening, golf, and fishing, and last February he made a ski trip to Switzerland and France. Don is single and lives at 25 East Kent Road, Duluth.

**Paul M. Walstad** is a general and thoracic surgeon and lives at 2937 North Berkeley, Turlock, Calif. He took his surgery training in San Francisco, Pennsylvania, and Oregon. He is married to the former Marjorie Jane Vandenberg, a Californian, and is the father of Diana, 18; Marilyn, 16; David, 10; and twins Linda and Paula, 8.

**Robert M. Watson** has been in partnership in general practice for the last 11 years at the Watson & Schuft Clinic in Morris, Minn. He served in the Army from 1945-46 and married Ruth Arneson of Morris. They are the parents of Terry Lee, Sara, Annette, and Laurie and live at 114 W. 9th Street. Bob teaches public health at the new Morris Branch of the University of Minnesota.

**G. Charles Wilcox** is chief of staff at Naeve Hospital in Albert Lea, Minn., and is in general practice with the 12-man Albert Lea Medical and Surgical Center. His wife, Mary Jane, was from Virginia, Minn. Their children are David, 18; Patricia, 17; and Betty, 13. The Wilcoxes live at 311 Fountain Street, Albert Lea, Minn. Charles is current president of the Freeborn County Medical Society, and likes scuba diving and underwater photography.

THE MEDICAL BULLETIN

**Douglas C. Youngman** served in the Army both during World War II and the Korean conflict but has continued in general practice in Marion, Mich. He took a surgical residency between military service tours and now lives with his wife, Mary, and Robert, 18; John, 17; June, 16; William, 15; and twins Dean and Gene, 9; at 507 Douglas Lane.

**V. Richard Zarling** is in solo practice as a neurologist in Minneapolis, teaches at the Medical School and served recently on brief active duty with the Air Force in Germany. He and his wife, Marjorie, live at 4908 Bywood West, Minneapolis with their 10 children: Cynthia, 14; Suzanne, 12; Christine, 10; Richard, 8; Anne, 7; Beth, 5; Teri, 3; Pauline, 2; and twins Danny and David, age 1.



## Special Article

### DONALD CHURCH BALFOUR

#### *Great Surgeon and Devoted Friend of Medical Education*

Owen H. Wangensteen, M.D.†

The death of Donald Church Balfour marks the severance of another link with the past. Don Balfour was one of the great gastric surgeons of his time. Surgeons from everywhere came to see his skillful execution of difficult gastric operations. He also devised a number of instruments to facilitate his work. The Balfour operating table and abdominal retractor are well known to all surgeons and have been in general use in operating rooms around the world for decades. Like Hans Finsterer of Vienna, Balfour learned from his own experience and, in America, during the transition period from drainage operations to gastric resection, he became one of the keen exponents of the more radical operation in the surgical management of duodenal ulcer.



DONALD BALFOUR

On days when I visited Don Balfour during his surgical heyday in the thirties, he regularly listed three gastric operations, and occasionally four. It was a rewarding experience to see him at work and to have the opportunity of discussing with him his triumphs and failures. The latter troubled him—the successes he took in stride.

In his earlier professional life, Balfour addressed himself to a variety of themes, including surgery of the colon, biliary tract, spleen, hernia and kidney. By 1922, his interest in the surgery of the stomach and duodenum had become an absorbing interest. Thereafter, until he abandoned operative surgery to devote himself to the administrative duties as Director of the Mayo Founda-

†Professor and Chairman, Department of Surgery, University of Minnesota

tion, all his professional writing concerned the stomach and the duodenum.

The Balfour technique of an occasional heartening word of encouragement inspired confidence and left a relish on the palate of memory readily renewed on reflection. Balfour never strove to prove the work of another in error. The gleeful satisfaction of such detection, enjoyed by some, was foreign to his makeup. Sweet is the recollection of this friendly and genial spirit.

Balfour was a composite of many singular facets and warm qualities. Possessed of a matchless capacity for friendship and genuine love for his fellowman, Donald Balfour appreciated and reciprocated the affection of his colleagues. He was a marvelous correspondent and his warm letters of encouragement and approval of younger colleagues mirrored and revealed an unalloyed tender and sympathetic solicitude for their welfare. Will Mayo once told me that Don Balfour had the gentlest disposition of any man he had ever known. This is indeed high praise from a father-in-law, but Will Mayo was a peerless judge of people. Those privileged to know Don Balfour would readily endorse Will Mayo's enthusiastic appreciation of this distinctive flavor of Balfour's warm personality. His honors were many and international, but completely devoid of vanity; Balfour carried these, true to his nature, with characteristic modesty.

Balfour was an accomplished musician. His love of music led him to have a pipe organ installed in his house and many a guest has been fascinated and charmed by an evening spent in the delightful and gracious atmosphere of Don and Carrie Mayo Balfour's home. Donald at the organ provided a climate of enchantment which transported the visitor's thoughts far from Surgery. Balfour indeed would have fitted nicely into a Brahms-Billroth setting.

During his life, Balfour was to learn something of the restraining influence of illness. Repetitive episodes in bed because of recurrence of symptoms from pulmonary tuberculosis finally persuaded him to give up operative surgery to devote himself to administration. After retirement, he struggled through several years of repeated periods of hospitalization for pulmonary edema occasioned by advancing coronary occlusion. All this Don Balfour supported without uttering a word of complaint.

Balfour became the second Director of the Mayo Foundation, succeeding Dr. Louis B. Wilson in 1937, to which important activity he gave great impetus over the 10-year period when he was at the helm. Under his directing hand, the vigor and scope of the Mayo Foundation expanded considerably until today it

probably constitutes the largest graduate training program for physicians in the world. Firmer ties with the Graduate School of the University campus also came as a natural consequence of Balfour's initiative.

The founders of the Mayo Clinic, William J. and Charles H. Mayo, had lived a David and Jonathan existence, sharing everything. "My brother and I" were familiar words, often spoken by both. They even lived out of the same pocket-book! The two components of the Medical Faculty of the Graduate School have not yet come quite that far in sharing their common interests. Don Balfour's belief that closer ties of affiliation would be mutually beneficial to both faculties was a sentiment reciprocated by Guy Stanton Ford, J. L. Morrill, Theodore C. Blegen, and Harold S. Diehl, an attitude shared by their successors and counterparts, Victor Johnson, O. Meredith Wilson, Bryce Crawford, and Robert Howard. This frame of mind too is far more apparent today in the attitudes of the respective faculties of these two segments of the Graduate School than it was when Balfour assumed the duties of the Director's Office of the Mayo Foundation.

Like the Brothers Mayo, Balfour loved the University of Minnesota and was a frequent Medical School campus visitor. He had been a member of the Graduate Faculty since the beginnings of the affiliation of the Mayo Foundation with the University in 1917. For his distinguished service to the University, eleven years after the death of Drs. Charles and Will Mayo, Donald Church Balfour, by action of the Board of Regents, was made a member of "that illustrious company of men and women whose names will be honored and revered by the University for countless decades and future centuries." Many friends of Don and Carrie Balfour came together to manifest their approval and pleasure when President Morrill conferred the medal of Builder of the Name upon Don Balfour on February 16, 1950. He was also a patron member of the Minnesota Medical Foundation.

In large measure, Don Balfour was responsible for setting in motion a catalytic influence of mutual trust, help, and interest which still continue like a chain reaction to the interactive and reciprocal advantages of both segments of our Graduate School.

The magnetic effect of good work does not perish with the doer. Its influence lives on and may be felt both near and far, even in distant times. Balfour's memory rests upon us now like a benediction. Those of us privileged to know him will cherish his memory with genuine pride and warm affection.

# Staff Meeting Report

## Studies in Quality Control\*

Patricia H. Bordewich, M.S.,† Esther F. Freier, M.S.,‡  
Jacob E. Bearman, Ph.D.,§ Ellis S. Benson, M.D.,††  
Byron W. Brown, Ph.D.,‡‡ and Verna L. Rausch, M.S.¶

For more than 15 years the Department of Laboratory Medicine has been experimenting with a variety of quality control measures to achieve a high degree of reliability in the results of laboratory determinations. Our first report on our experience was given in January 1958 at a staff meeting of the University Hospitals. The present report enlarges on our experiences with statistical quality control and describes some new experiments which shed light on precision and the pursuit of excellence in the laboratory examination of patients.

### *Clinical Chemistry*

The result of a laboratory examination, expressed quantitatively, is subject to error. This error is the consequence not only of the laws of chance but also of the variable factors which go into making the measurement, i.e., the quality of reagents, standards, instruments, and technique. Errors due to these variable factors are amenable to control. By introducing a sample from a control serum pool into each series of determinations on unknown samples, one can make a statistical judgment whether the results obtained are acceptable or not depending on the value obtained on the serum pool in the run.

When the serum pool value is outside limits, the entire series must be repeated in order to ensure that reliable results are reported to the clinician. If none of the batches are repeated, rather marked errors can occur in reported results as reagents deteriorate and instruments get out of adjustment. Narrow limits insure a high degree of reliability of results, but the laboratory

\*Presented at the Staff Meeting of University Hospitals on March 13, 1964

†Assistant Professor, Department of Laboratory Medicine

‡Assistant Professor, Department of Laboratory Medicine

§Professor, School of Public Health

††Professor, Department of Laboratory Medicine, and Director, Clinical Laboratories

‡‡Associate Professor, School of Public Health

¶Assistant Professor, Department of Laboratory Medicine

is occasionally repeating work unnecessarily because the control pool signalled trouble due to the laws of chance alone rather than reagent, technical or instrumental difficulties.

Our current studies are concerned with estimates of precision of our methods comparing estimates made from our "known" serum pools and "blind" duplicates. By blind duplicates we mean coded specimens which are unknown to the analyst. The estimates of the precision of the methods are used to set limits for the chance variation of the control pool value.

Results of these studies indicate that limits for the control pool should be set such that about 5 percent of the batches of a given determination require repetition. Because of the amount of bias introduced into the estimate of precision made with known duplicates, the laboratory risks some degree of unnecessary repetition of the workload. A correction can be made simply by obtaining this estimate from blind duplicates over a period of time. One merely needs to code a duplicate on one of the unknown specimens in each batch. No fault has been found to be introduced in the working quality control system by the analyst's awareness of the target value of the "known" control samples.

### *Hematology*

During the past few years, the hematology laboratories have been engaged in establishing a quality control system which could be used to define the error of the measurements made by the laboratory under actual working conditions. Conventional quality control systems, which are based upon the inclusion of control samples and standards in each run of a given procedure, are not possible for most hematologic measurements since the lack of stability of blood cells and other components assayed prevents the preparation and use of control pools and standards. Statistical analyses of the precision of the results obtained with

STANDARD DEVIATIONS AND 95% CONFIDENCE LIMITS  
FEBRUARY 1964

| <i>Procedure</i>                    | $\pm$ <i>Standard deviation</i> | $\pm$ <i>95% limits</i> | <i>No of pairs</i> |
|-------------------------------------|---------------------------------|-------------------------|--------------------|
| Hemoglobin (g%)                     | 0.177                           | 0.4                     | 64                 |
| Leukocytes (per mm <sup>3</sup> )   | 210                             | 400                     | 64                 |
| Erythrocytes (per mm <sup>3</sup> ) | 85,000                          | 170,000                 | 50                 |
| Platelets (per mm <sup>3</sup> )    | 11,961                          | 24,000                  | 64                 |
| Reticulocytes (%)                   | 0.5                             | 1.0                     | 60                 |
| E.S.R. (mm per hour)                | 1.94                            | 4                       | 65                 |

## THE MEDICAL BULLETIN

various procedures were used to determine the extent of laboratory variation or error to provide a system of quality control.

The system is based upon the daily inclusion of duplicate venous blood samples. Samples of blood received in the laboratory are mixed, divided into two aliquots, coded, and processed as individual samples. These are partially blind controls since the identity of the coded sample but not its duplicate is known. The standard deviation and 95 percent confidence limits (2 standard deviations above and below mean) are calculated for each group of 64 pairs. The statistical data for the most recent study is shown in the accompanying table.

Statistical analysis of blind or partially blind duplicates provides a reasonable system for controlling laboratory precision. The combination of statistical quality control and the checking of quantitative results by examination of a stained blood film yields a high degree of reliability of reported results in hematology.



## Staff Meeting Report

### Hemochromatosis\*

Cecil J. Watson, M.D., Ph.D.† and M. John Murray, M.D.‡

The French clinicians of the late 19th century first described hemochromatosis, although it was given this name by von Recklinghausen. Gilbert first wrote of "alcoholic pigmentary cirrhosis." Sheldon's monumental critical review of 1935 is the great landmark in the literature of the subject. Most studies have been directed toward the basis of the massive accumulation of iron in the liver. Sheldon believed this might occur so slowly as to escape detection in iron balance studies over a short observational period. He personally favored the view that the accumulation resulted from increased avidity of the liver for iron, rather than increased absorption.

Alcoholism has been noted in about 25 percent of cases in most reports on idiopathic hemochromatosis with the exception of the study of MacDonald and Mallory who found an incidence of 85 percent. These authors believed that alcohol and nutritional factors and not iron, per se, were the prime causal factors in hemochromatosis. Their case material, however, was from an institution and area with a high overall incidence of alcoholism. That these factors are highly important in one form of hemochromatosis cannot be doubted, but as Sheldon pointed out, there are too many cases without alcoholism to permit acceptance of this factor as the cause of primary hemochromatosis.

Dr. E. T. Bell found only 30 percent incidence of variable hepatic hemosiderosis in 733 cases of portal cirrhosis, a series including but 11 cases of typical hemochromatosis. Increased iron absorption has been documented in cases of portal cirrhosis.

Protein malnutrition with high iron intake with or without alcoholism may cause hemochromatosis in the Bantu. Pancreatic injury appears to be associated with increased iron absorption and the administration of pancreatic extract may depress this increased uptake both in alcoholic-nutritional and the hereditary hemochromatosis. In isolated intestinal pouches pancreatic juice

\*From a report to the Staff Meeting of University Hospitals on March 20, 1964

†Distinguished Service Professor and Head, Department of Medicine

‡Associate Professor, Department of Medicine

markedly depresses the absorption of  $\text{Fe}^{59}$  but it has not been proven that a pancreatic deficiency is of significance in primary hemochromatosis, although this has been suggested. One of us (M.J.M.) has recently observed that a protein constituent of pancreatic secretion, human or bovine, forms a complex with  $\text{Fe}^{59}$  preventing its dialysis *in vitro* and its absorption *in vivo*. This will shortly be described in a separate communication.

Following operative portacaval shunts large amounts of iron may be deposited in the liver (Doberneck, 1963). This suggests that spontaneous portal-systemic shunting in acquiring cirrhosis may promote iron deposition. Hepatic injury itself has been thought to be concerned with iron deposition although it seems paradoxical that with acute liver injury the serum iron increases, presumably due to hepatocellular release.

Among the secondary forms of hemochromatosis the alcoholic-nutritional group is undoubtedly of major significance and in many areas of much greater frequency than the primary form which now appears well defined as an inherited metabolic disease. The early increase of serum and hepatic iron and increased uptake of activity over the liver after oral  $\text{Fe}^{59}$  (Brunner and Frick, 1963) in the children and close relatives of *propositi* in advance of clinical manifestations, point strongly to the independent, hereditary nature of the primary type.

MacDonald's belief that the iron deposition in "idiopathic" hemochromatosis is due to alcoholic nutritional factors, including high local intake of iron, especially in wine, appears entirely valid for the secondary alcoholic-nutritional group, but the work of Scheuer *et al.* fails to support the idea that local variations in dietary iron account for the primary type. They showed that relatives of probands with non-alcoholic hemochromatosis had more iron in their livers than the local control population, or than relatives of a case of alcoholic-nutritional hemochromatosis.

MacDonald believes that iron has no role in the production of tissue damage leading to fibrosis. Dr. Bell more cautiously pointed to the well known damaging effect of iron on the myocardium. The Finchs believe that failure to produce the lesions of hemochromatosis experimentally may simply depend on too little iron over too short a time, as contrasted with 50 gm. in 50 years, a conservative estimate for the hereditary disease. The Finchs rightly stress transfusion hemosiderosis as an example of the deleterious effects of large amounts of iron approximating those seen in primary hemochromatosis. Also typical hemochromatosis has often been seen in patients with chronic anemia of various types, especially when there has been long continued iron therapy in the absence of iron deficiency, as in refractory

or hemolytic anemias. Plecher *et al.* report a patient with familial nonspherocytic hemolytic anemia who received at least 1300 g. of oral iron prior to death at 38 and who had all the findings of classical hemochromatosis at necropsy. The liver weighed 2800 gm. and contained 55 g. of iron. It is quite clear that excessive iron absorption resulting from chronic anemia is of great importance in iron deposition. Heilmeyer suggests that iron in the liver is only injurious when it exceeds the capacity of an hepatic protein (apoferritin?) to bind it. This is analogous to the acute toxicity of iron when the serum iron binding capacity is greatly exceeded.

Recently Ayvazian has reported a striking lack of xanthine oxidase in the liver in a case of hemochromatosis. Although this finding may be coincidental, it is known that this enzyme is necessary for conversion of ferric iron to ferrous ferritin. If this enzyme were reduced iron could not be stored as ferritin but would probably form hemosiderin instead. Such a theory, however, could not explain the increased absorption of iron in hemochromatosis.

With these considerations in mind the following classification of hemochromatosis is proposed:

- I. Primary (hereditary)
- II. Secondary
  - A. Alcoholic-nutritional (including factors of pancreatic and hepatic injury and spontaneous porta-systemic shunting).
  - B. Chronic anemic, with or without transfusions, oral iron therapy.
  - C. Iatrogenic portacaval.

## *Medical School News*

### **DR. CHARLES F. MORGAN, PROFESSOR OF ANATOMY, DIES AT MEDICAL SCHOOL**

Dr. Charles F. Morgan, professor of anatomy, died March 10, 1964 of a heart attack while at work at his desk in the University of Minnesota Medical School. He was 52 years old, and was widely admired for his kindness, sympathetic understanding, and warmth of relationships with colleagues, students, and friends.



CHARLES MORGAN

Dr. Morgan was born Nov. 30, 1911 in Cherokee, Okla. He joined the University of Minnesota faculty in 1959 after 17 years as a teacher of pharmacology and physiology at Georgetown University Medical School, Washington, D.C., during which time he was also a consultant to the U.S. Naval Medical Center, Bethesda, Md. A former high school teacher and principal, he was educated at the University of Wichita, Johns Hopkins University, and the University of Chicago, receiving the Ph.D. from the latter institution in 1942.

At Minnesota, he was assistant head of the Department of Anatomy, coordinator of graduate studies, and taught gross anatomy and other subjects. He was chairman of the Medical School's Committee on Careers in the Health Sciences, and was chairman of the recently organized Minnesota Citizens' Committee for Health and Research. He was also an active Methodist layman.

Dr. Morgan's research had centered on the fields of endocrinology and the physiology of reproduction. He was a member of eight national scientific societies.

Burial was in National Memorial Park, Arlington, Va. Surviving are his wife, Betty Jean, three sons, and a daughter. The family lives at 5817 Upper Terrace, Minneapolis 24, Minn. Memorial gifts may be directed to the Minnesota Medical Foundation, Box 193, University Hospitals, Minneapolis, Minn. 55455, or the Good Samaritan Methodist Church of Edina, 5730 Grove, Minneapolis, Minn. 55424.

Appointment of Mr. Gerald H. Gillman as administrative assistant to Dean Robert B. Howard of the College of Medical Sciences has been announced.

Mr. Gillman, 36, joined the staff December 17, 1963 in the newly-created position with responsibility for supervision of all fiscal and personnel matters in the office of the Dean. He has special responsibility for the fiscal coordination of research grants.



GERALD H. GILLMAN

"We welcome the addition of Mr. Gillman to the staff," said Dr. Howard, "in anticipation that there will be a considerable lightening of the load of administrative detail now carried by the Dean and assistant Deans."

Mr. Gillman is a graduate of the University of Minnesota Law School, and was admitted to the Bar of Minnesota in 1960. He is also a graduate of the Minneapolis Business College with a major in accounting, and was formerly employed by the U.S. Steel Corporation and the U.S. Department of Agriculture.

A native of Minnesota, he lives in New Brighton with his wife and three sons.

### SCHOOL OF PUBLIC HEALTH

Dr. Herman Kleinman, lecturer in the School of Public Health and head of the section of chronic diseases of the Minnesota State Health Department, died February 29, 1964. He had been Minnesota's state epidemiologist since 1954, and had been president of the Minnesota Tuberculosis and Health Association for the last four years. Dr. Kleinman, 57, was a graduate of Jefferson Medical College, Philadelphia, Pa. A son and a sister survive him.



HERMAN KLEINMAN

MEDICINE

**Dr. Cecil J. Watson**, distinguished service professor and head of the department, lectured this month in Freiburg, Germany, at an international symposium observing the 65th birthday of Dr. H. C. L. Heilmeyer, founder and director of the Medizinische Universitätsklinik in that city. Dr. Watson was a student of the world-renowned Dr. Heilmeyer 30 years ago, and was one of six U.S. delegates to the symposium. His topic was "Porphyrin Metabolism and Porphyria with Special Reference to the Erythropoietic Group."

**Dr. Wesley W. Spink**, professor, presented three lectures in Great Britain recently, including the Jenner Lecture at St. George's Hospital and Medical School in London February 27 where he discussed "The Host-Parasite Relationship in Brucellosis: Experimental and Clinical Studies." On February 28 he lectured on the "Pathogenesis of Endotoxin Shock" at London University, and on March 3 he spoke before the Royal College of Physicians in Edinburgh, Scotland, on "The Dilemma of Bacterial Shock: Experimental and Clinical Studies."

PROCTOLOGY

**Dr. David L. Siegal** was called to active duty March 7 with the Army Medical Corps. He has been a resident in proctology and in general surgery at Minnesota since taking his internship here in 1957-58. Capt. Siegal expects to serve two years in the Army with probable assignment in Viet Nam. His address is c/o 8th Field Hospital, A.P.O. 40, San Francisco, Calif.

DERMATOLOGY



FRANCIS LYNCH

**Dr. Francis W. Lynch**, director of the Division of Dermatology, was a visiting professor of dermatology at the Mayo Clinic and Mayo Foundation, Rochester, Minn., February 26-29, 1964. He also was recently elected president of the Association of Professors of Dermatology for 1964.

## STATE MEDICAL ASSOCIATION AWARDS ANNUAL SCHOLARSHIP

William J. Norberg, Jr., Medical School freshman, was named winner of the 1963-64 Rural Medical Scholarship of the Minnesota State Medical Association. He will receive \$1,000.00 per year to cover educational expenses for each of four years in Medical School. In return, he promises to practice medicine upon completion of his training for at least five years in a rural Minnesota community in need of a physician.

Norberg is a native of Barnum, Minn., and spent three years of pre-medical study at the University of Minnesota, Duluth, and the University of Minnesota. He is a member of Alpha Kappa Kappa, and is the 13th student to receive the \$4,000.00 scholarship offered annually by MSMA.



WILLIAM NORBERG

Dr. Charles G. Sheppard, (Med. '35), Hutchinson, Minn., chairman of the Association's Scholarship and Loan Committee, said the dual purpose of the scholarship is "to give financial assistance to worthy and outstanding students and to insure a supply of physicians for non-metropolitan areas of Minnesota."

Other Medical School students who are current holders of the MSMA Rural Scholarship are Donald Asp, Milaca, Minn., ('64); Charles Benjamin, Hutchinson, Minn., ('65), Elton Wing, Jackson, Minn., ('65); and Roland R. Larter, Lancaster, Minn., ('66).

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## DAVID THOMPSON WINS FOREIGN FELLOWSHIP

David M. Thompson, Medical School junior, was named winner of a 1964 Smith, Kline & French fellowship, and will spend ten weeks next summer working at L'Hopital des Missions Protestantes, Cameroun, Africa. His wife, Joan, will accompany him.

Twenty-nine junior and senior medical students at U.S. universities were selected for foreign fellowships this year by the Association of American Medical Colleges. Previous winners from the University of Minnesota include Gerhard J. Johnson (Med. '63) and Robert S. Brown (Class of '64).

## *Alumni Notes*

### ◆ 1904

**Charles E. Bigelow**, who retired from practice a year ago at the age of 83, was honored recently by the appreciative citizens of Dodge Center, Minn., where he spent 51 of his 59 years in general practice.

### ◆ 1919

**Anderson C. Hilding** is new president of the American Laryngological Association. He is engaged in research at St. Luke's Hospital, Duluth, Minn.

### ◆ 1927

**Arden L. Abraham**, Duluth, Minn., was made a fellow of the American College of Radiology at the group's annual meeting February 7, 1964. The degree of fellow is granted by the College to certified radiologists who have given distinguished service to their specialty.

Also receiving the degree of fellow from the College on Feb. 7 was **Daniel L. Fink** (Med. '38), St. Paul, Minn. He is a radiologist at Minneapolis V.A. Hospital and the Northern Pacific Hospital in St. Paul.

### ◆ 1929

**Robert N. Barr**, executive officer of the Minnesota Department of Health, was honored as 1963 recipient of the Francis E. Harrington Award of the Minnesota Public Health Association. The award is given in recognition of outstanding leadership and achievement in public health in Minneapolis.

### ◆ 1930

**Max J. Goodman** writes that after 25 years of private practice in Eureka, Calif. he is now engaged in industrial medicine at Hughes Aircraft Co., Culver City, Calif. He lives at 10600 Eastborne Ave., Los Angeles 24.

### ◆ 1941

**Ben I. Heller** has moved from Marquette University School of Medicine to the University of Oklahoma Medical Center, where he is now director of a new Department of Clinical Pathology and the clinical laboratories.

### ◆ 1942

**Kristofer Hagen**, Edina, Minn., physician and medical missionary, is the author of a new book titled "Bells Still Are Calling," which was published March 1 by Augsburg Publishing House, Minneapolis. In it he describes the changing pattern of church mission work in recent years, with particular reference to his two sojourns in India. He argues that the surest key to progress for India's masses is intensified Christian evangelism.

◆ 1944

**Leo J. Gehrig**, Washington, D.C., has been appointed Chief of the Bureau of Medical Services, U.S. Public Health Service, effective April 1, 1964. A career PHS officer, he has served as deputy director since July, 1962 of the Bureau which administers medical programs in 295 medical facilities at home and overseas. Dr. Gehrig, a native of Duluth, was the first medical director of the U.S. Peace Corps. He is a fellow of the American College of Surgeons, and a member of A.O.A. He lives with his wife, Marillyn, and two sons, Gregory and Mark, at 4535 Alton Place, N.W., Washington, D.C.



LEO J. GEHRIG

◆ 1946

**Truman A. Newberry** is mentioned in the current issue of "Who's Who in the West." He is chief surgeon and superintendent of medical and surgical services at Stockton, Calif. State Hospital. Truman lives at 703 N. Stanislaus, in that city, with his wife, Gertrude, and three daughters.

◆ 1948

**Alexander M. Boysen**, Lt. Col., U.S. Army Medical Corps, has won the Army Commendation Medal resulting from his two years of service as surgeon and commanding officer of the Second General Hospital, Landstuhl, Germany. Dr. Boysen is now assigned to Walter Reed Hospital, where he is undertaking special courses in military medicine and allied sciences.

◆ 1954

**Richard D. Granquist** is now associated in practice with the Nicollet Clinic in Minneapolis. He completed a residency in orthopedic surgery and practiced in Duluth, Minn. before taking his new post on January 1, 1964.

◆ 1961

**Capt. John B. Leary** writes from Hawaii that he and his wife, Dorothy, have a new 8-lb daughter, their third child. He adds: "We're slowly climbing out of debt; I have learned to surf and find it exciting; In August we'll head for Walter Reed Army Hospital to complete a radiology residency. Aloha!"



R. D. GRANQUIST

## *Alumni Deaths*

Unexpected in spite of his advanced years was the death February 14, 1964 of Dr. Samuel E. Sweitzer, 86, Medical School graduate of 1901 and long-time clinical teacher of dermatology. His first appointment to the faculty of the Medical School was in 1905; in recent years he was emeritus professor. He had directed all dermatologic teaching at the Medical School prior to establishment of the Division of Dermatology in the Department of Medicine.



DR. SWEITZER  
1877-1964

Later Dr. Sweitzer was in charge of the clinical service and teaching program at Minneapolis General Hospital. He retired in 1947 but remained active in private practice in Minneapolis until shortly before his final illness.

Dr. Sweitzer was an enthusiastic and entertaining teacher who will be remembered by all who spent time in his outpatient clinic at General Hospital. He had augmented his dermatologic experience by visiting European clinics on trips in 1904 and 1907, returning to Minnesota with information and concepts which led to an expanded and more effective instructional program here.

Dr. Sweitzer achieved national recognition among dermatologists, being elected to the American Dermatological Association in 1921 and later serving as its vice president. He was a loyal member of the Minnesota Dermatological Society and was honored at a special meeting of that group some years ago. Probably no member of the Minnesota Academy of Medicine was more loyal and regular in attendance at its meetings. He was a past president, and had attended its regular meeting of the month before his death.

He is survived by his widow, Mrs. Ann W. Sweitzer of Minneapolis. Memorial contributions are being directed to the Minnesota Medical Foundation, Box 193, University Hospitals, Minneapolis, Minn. 55455. The Samuel E. Sweitzer Fund for Dermatological Teaching and Research has been established there in his honor.

### ◆ 1912

**Dr. Otto J. Seifert**, New Ulm, Minn. Died Feb. 19, 1964, at the age of 76, while vacationing in Calif. He was in practice in New Ulm for fifty years and is survived by five children and eleven grandchildren. Dr. Seifert was an active Catholic layman, and Fellow of the American College of Surgeons.

◆ 1922

**Dr. Warren E. Wilson**, Northfield, Minn. Died Feb. 27, 1964, aged 67, of a coronary occlusion while vacationing in Hawaii. He had retired from private practice in 1959, following a heart attack.

◆ 1925

**Dr. Byron M. Biersborn**, State Center, Ia. Died Oct. 9, 1963, aged 67, of cirrhosis of the liver and aortic stenosis. He was a veteran of World War I.

◆ 1928

**Dr. George W. Waldron**, Houston, Tex. Died Feb. 19, 1964, at the age of 60. He had practiced surgery in Houston since 1937, and was a clinical professor of surgery at the Baylor University College of Medicine. Dr. Waldron had spent his youth in Rochester, Minn., and received his surgery training at the Mayo Foundation. He was a Fellow of the American College of Surgeons and was president of the Texas Medical Association in 1962.

## Memorial Gifts

The Minnesota Medical Foundation acknowledges with gratitude recent contributions made in memory of:

**Marie M. Glaserud**  
Crookston, Minn.

**Dr. Percy A. Ward**  
Minneapolis, Minn.

**Andrew Dahlstrom**  
Minneapolis, Minn.

**Dr. Paul S. Hagen**  
Minneapolis, Minn.

**Dr. P. M. Feda**  
Wolf Point, Mont.

**Dr. Charles F. Morgan**  
Minneapolis, Minn.

Memorial gifts are a thoughtful means of honoring the memory of a relative, friend, or colleague. They serve the living by strengthening medical education and research at the University of Minnesota Medical School. Gifts may be designated for specific purposes. The Minnesota Medical Foundation acknowledges all gifts to both donor and next of kin.

# COMING EVENTS

*University of Minnesota Medical School*

## CONTINUATION COURSES FOR PHYSICIANS 1964

University of Minnesota  
Center for Continuation Study

March 17 - 20 ..... Internal Medicine

April 23 - 25 ..... Gynecology

May 4 - 6 ..... Ophthalmology

May 14 - 16 ..... Surgery

June 3 - 5 ..... Anesthesiology

The University of Minnesota reserves the right to change this schedule without notification.

Courses are held at the Center for Continuation Study or the Mayo Memorial Auditorium on the campus of the University of Minnesota. Usual tuition fees are \$45 for a two-day course, \$65 for a three-day course, and \$80 for a one-week course.

Specific announcements are sent out about two months prior to each course to all members of the Minnesota State Medical Association and to any physicians who request information for a specific course. For further information write to:

DIRECTOR  
DEPARTMENT OF CONTINUATION MEDICAL EDUCATION  
THE MEDICAL CENTER (BOX 193)  
UNIVERSITY OF MINNESOTA  
MINNEAPOLIS, MINNESOTA 55455

## *Special Medical Lectures*

University of Minnesota

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- April 29 4:30 p.m. Mayo Auditorium  
ALPHA OMEGA ALPHA LECTURE  
*Speaker: Dr. Stewart C. Thomson,  
Professor School of Public Health,  
University of Minnesota,  
Minneapolis, Minn.*
- May 8 12 noon, Coffman Memorial Union,  
Main Ballroom  
SENIOR CLASS — ALUMINUS LUNCHEON  
*Minnesota Medical Alumni Association  
Speaker: Dr. Thomas A. Kinsella,  
Minneapolis, Minn.*
- May 15 4 p.m., Mayo Auditorium  
E. STARR JUDD LECTURE  
*"The University of Washington Operation  
for Complicated Duodenal Ulcer: Physi-  
ologic Development and Clinical Status"*  
  
*Dr. Henry N. Harkins, Executive Officer  
University of Washington School of Medi-  
cine, Seattle, Washington*