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The University of Minnesota
Medical School
1888 - 1965

The Medical School of the University of Minnesota this year is observing the 75th Anniversary of its founding. The occasion is being marked by a series of unusual symposia, distinguished visitors, and special events.

The Medical School was established in the 1880's as the amalgamation of the charters, faculties, and students of several proprietary medical schools in the State of Minnesota. In 75 years, the Medical School has grown to worldwide prominence as a center for the training of doctors, for medical research, and for care of the ill.

Although records are not totally reliable, it is clear that more than 6,000 physicians have received their M.D. degrees from the University of Minnesota. These graduates have utilized their skills in every part of the world, and have been the chief source of medical manpower for the State of Minnesota, as well as for a few other states. The Medical School has approximately 5,000 living alumni at the present time.

During the 1965-66 academic year, the MEDICAL BULLETIN will present a series of articles on the great moments of Medical School history, and the men and women who made that history.
THE MEDICAL SCHOOL BEGINS

Medical education in Minnesota dates back to the 1840's with the preceptorial system. Pupils worked in the physician's office, read his books, and visited patients with him. In this fashion the practice of medicine was perpetuated in the frontier community.

Minnesota's first step toward a formal medical college was taken in the 1880's, when provisions were made by the legislature for a department of medicine and surgery at the University of Minnesota. The history of the Medical School actually begins in 1888 when all but one of the ten existing colleges of medicine in the Twin Cities offered their charters and properties to the Board of Regents of the University on the condition that they set up and maintain a school of medicine. The Medical School, headed by its first Dean, Perry H. Millard, consisted of a College of Homeopathic Medicine and Surgery, and the College of Dentistry. The College of Pharmacy was added in 1892. The three year curriculum covered three six-month semesters and an arrangement was made with local hospitals for clinical teaching. Headquarters was a Free Dispensary located in southeast Minneapolis near the present site of St. Barnabas Hospital. (See back cover photo.)

In 1891, $80,000 was appropriated by the legislature for a medical building on the University campus, and Dean Millard personally advanced $65,000 of his own money for the structure. It was not until 1893 that the College of Medicine and Surgery officially moved to the campus in its quarters in the Medical Chemistry Building.

Of the Medical School's arrival on the campus it was later written: "The Academics were practically the entire University of that day and the invasion of the campus by the Medics was like the alarum of the barbarians at the gates of Rome. They were literally afraid of us and, perhaps, not altogether without occasion, for the Medics — hard working, ambitious, critical — were a rough lot. Concealing animals, dead or alive, under their
seats; mixing chemical solutions so that the reactions would not work; introducing a 'stiff' into a faculty meeting—these were quite ordinary pranks."

Under Dr. Millard, educational standards were markedly elevated. The medical course was extended to four years of eight months duration each year and entrance requirements were raised considerably. When Dean Millard died in 1897, A. Parks Ritchie was appointed to the position. He resigned in 1906 to devote more time to private practice but remained on the faculty as professor of obstetrics.

Prof. Frank F. Wesbrook succeeded Dr. Ritchie to the deanship and was responsible for uniting the Hamline University medical facility into the University College of Medicine and Surgery. Since that time, in 1908, there has been only one school of medicine in the State. Dr. Wesbrook also established the medical art and photography departments, the School of Embalming and organized the School of Nursing—the first university training school for nurses in the world. Summer school courses were also initiated and the medical school curriculum was extended to six years, leading to joint degrees of Bachelor of Arts and Doctor of Medicine.

Enthusiasm for a University Hospital grew until the legislature appropriated monies to supplement private contributions and the Elliott Memorial Hospital was built and began service in 1911 with a capacity of 120 beds. The Medical College buildings now consisted of the Laboratory of Medical Science, Public Health and Pathology building, the new hospital, Institute of Anatomy, and Millard Hall. These five buildings provided what was often referred to as "one of the most modern and best equipped medical schools in the country."

NEXT MONTH: "A "Drastic Reorganization" Occurs."
Class of 1950 Holds Reunion

The Class of 1950 gathered for a reunion May 15-16, 1965 in Minneapolis, enjoying a reacquaintance after 15 years. The fun and fellowship included a banquet, a boat ride on Lake Minnetonka, and revisits to the Medical School. About 80 graduates and their wives attended, several from distant states.

Promotion of the reunion was the work of a dozen classmates who have been hunting companions for several years. The "Committee" included Chuck Carlson, Cliff Florine, Terry McManus, Mel Oppen, Konnie Prem, Pat Rollins, Ken Romness, Tom Semba, Mike Shelander, Cliff Stadem, Dave Webster, and Neal Gault.

Data turned up in the class survey reveals 11 families with six or more children, including seven sets of twins. Fritz Miller and his wife have the largest family—eight children.

After 15 years, many of the Class of 1950 are teachers as well as practitioners of medicine, including two associate deans of the Medical School itself.

John Allen is in general practice with a three-man group in the Chippewa Clinic in Montevideo, Minn., an association of 14 years. His wife is the former Marjorie Kirschner of Wisconsin, and their three daughters range in age from 14 to 10. In his spare time, John operates a 200-acre farm and raises and trains quarter horses.

Dave Allison has been in general practice with his partner, Gregory M. Olson (Med. '53) in Litchfield, Minn. for 14 years, with time out for Air Force duty, 1955-57. He and his wife, Georgia Sanford of Brainerd, have five children, ages 13 to 5, including a set of twins.

Sol Austrian* has had a pediatrics and allergy practice with Ed Strem and Rich Sand in St. Paul for seven years. Sol teaches at the Medical School, where he took his residency in pediatrics. Sol's wife is Bette Libman of Connecticut, and their three daughters range in age from 16 to 7.

*Member, Minnesota Medical Foundation
Bill Autrey* is a GP and is college physician at St. Cloud State College, St. Cloud, Minn. He married Marcia Mabbott of Superior, Wis., and they have a family of seven, ranging in age from 15 to 4.

Paul Bauer practices general medicine with a seven-man group in Faribault, Minn., where he has spent 12 years. Previous to that, he served two years with the Army in the Korean War. He and his wife, Marilyn Strahl, an R.N., have four children who range in age from 14 to 7.

Roger Berg* has been a radiologist at the Quain and Ramstad Clinic in Bismarck, N.D. for nine years. He took his residency at Bismarck Hospital, and is a clinical professor at the University of North Dakota. Roger served in the U.S. Navy and married Florence McNeal of Minneapolis.

Jim Bergquist* is a clinical instructor at the Medical School and attending physician at Hennepin County General Hospital. He married Joan Pruki of Ely, Minn., and they have four children.

Harry Billings* is a surgeon in the Medical Block Clinic, Red Wing, Minn., where he has been for eight years. He received his M.S. in physiology from the U. of M., and took his residency at the Minneapolis V.A. Hospital. Harry was stationed in the Hawaiian Islands in the Army, is married, and has four children, age 14 to 7.

Frank Bonello* has practiced general medicine alone in St. Paul for 13 years. He spent two years with the USPHS, and is married to Jeanne Nyborg of Minneapolis. They have six children, ages 23 to 7.

Charles Brisbin is in solo general practice in Pittsburg, Calif., where he has spent 13 years. He married Pauline Phelps of that state, and they have six children, ages 20 to 12.

Bill Broderick has been in solo general practice with a medical group in Modesto, Calif. since 1954. He recently spent two years as chief of staff at Doctors Hospital, and is now building a new office in partnership with 5 M.D.'s and 5 dentists (“still solo practice.”) Bill writes that he had a twin engine Beechcraft airplane “which I cracked-up and totaled-out a year ago — walked away with one cracked rib!” The family recently spent two weeks “house trailering” in the Grand Tetons. Bill's wife is Mary Ellen Kennelly of North Dakota, and they have three children, ages 19 to 11.

*Member, Minnesota Medical Foundation
Roger Johnson, his wife, and four children are a typical family in the Class of 1950, which has produced an average of four offspring per graduate. Roger is a surgeon in Corpus Christi, Texas.

Roland Brown* is in a two-man general surgery partnership in San Diego, Calif. and teaches in the surgery service of San Diego County General Hospital. He took his residency at Mayo and married Lucy Haskell of Maine. Their five children "developed following a wedding in 1952," writes Rollie. "We enjoy skiing, sailing, tennis—all children, fortunately, are water-proofed!"

Martin Callan* has been a radiologist in Modesto, Calif for 2½ years. Martin served in the Navy and married Mary Redpath of Nebraska. They have three sons, ages 10 to 2.

Charles Carlson has been in general practice with the Mound, Minn. Medical Clinic for 11 years. He interned in Navy hospitals and saw service in Hawai'i and Japan. Married to Anita Binnebose of Wisconsin, Charles has four children, ages 10 to 6 months.

H. Mead Cavert* is associate dean of the Medical School and associate professor of physiology. He has been at the University since 1950, except for a 1961-62 sabbatical at the University of Edinburgh, Scotland. He earned his Ph.D. in physiology at the Medical School, and saw military service with the USAF weather unit in India and China. Mead married June Sederstrom of Litchfield, and they have three sons, ages 16 to 8.

Kent Christoferson practices ophthalmology in Eugene, Ore. After internship he trained at the Mayo Clinic and began practice in 1956. Married to Mary Jane Batten, Kent has five children, ages 13 to 4.

*Member, Minnesota Medical Foundation
John Culligan is a thoracic surgeon in St. Paul and is an assistant clinical professor at the Medical School. He trained at the Mayo Clinic and served in the Navy. John married Sheila Spriggs of St. Paul. They have six children.

Ed Donatelle* is a member of Southwest Clinic in Minneapolis, a seven-man group with which he has been affiliated for 14 years. He served in the Army and married Marian Thrall of Minneapolis. The Donatelles have 22-year-old twin married daughters, and three other children, ages 13 to 18. They have three grandchildren, a son who attends Colorado College, and "the two youngest children plan medical careers." The family enjoys skiing and the "arts" available in Minneapolis. Ed is active in the Academy of General Practice.

John Dwyer has been a GP in Duluth, Minn. since 1951. He and his wife, Dorothy, have a family of five, ages 11 to 2. He met his wife, an X-ray technologist, while interning at St. Luke's Hospital and "lived happily ever after." John enjoys photography, music and "the fresh air of Duluth."

Henry Eastman practices general medicine alone in Santa Ana, Calif. where he has been for 14 years. His wife was the former Hazel Coleman of Minneapolis, and they have three sons.

Evan Ellison practices in Minneapolis and is on the clinical orthopedic faculty of the Medical School. He served in the Air Force and took his specialty training in Minneapolis. Evan married Sybil Meyers and they have five children, including one set of twins.

Malcolm Fife* is in urology practice in Duluth with J. M. Streitz (Med. '51) and another urologist. His internship was at the U.S. Navy Hospital in Bremerton, Wash. Malcolm's wife is Nancy Willard of Mankato, and they have seven children, ranging in age from 16 to infant. He comments that the entire family "skis in the winter, hunts in the fall, sails in the summer, and there just ain't no Spring in Duluth!"

Bill Filante* practices ophthalmology with an associate in San Rafael, Calif., an association of five years. He took his residency at Los Angeles County Hospital. Bill formerly served in the Air Force, and is married to classmate Mary Margaret Scott Filante. Mary practices physical medicine and rehabilitation alone and is head of that department at Mevin and Ross Hospitals in San Rafael. They have three children.

Cliff Florine* practices alone in Mankato, Minn., specializing in family care and internal medicine. The Florine family includes

*Member, Minnesota Medical Foundation

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Joyce Funke* is a fulltime staff physician and consultant in internal medicine with the U. of M. Health Service. She was formerly in group practice in the Glendive, Mont. clinic.

Neal Gault* practices internal medicine with an interest in rheumatology at the U. of M., where he is associate professor of internal medicine and associate dean of the College of Medical Sciences. He took his residency at the Medical School and his rheumatology training in N.Y.C. Neal spent two years in Korea on a University exchange program assisting the Medical College of Seoul National University. The family went along. He has had two assignments in the Far East since: in 1963 for the China Medical Board as consultant to medical schools in Korea, Japan, Formosa, Hong Kong and Manila; and in 1964 for the State Department as consultant in Saigon, Viet Nam.

Sarah Gault,* wife of Neal Gault, is in physical medicine and rehabilitation at the Minnesota V.A. Hospital where she has been for two years, and an instructor at the Medical School. She took her residency at the U. of M. and at NYC Institute of Rehabilitation. The Gaults have three children, ages 13 to 6.

Don Gilsdorf* is with an internal medicine group in St. Paul where he has spent 11 years, with time out for Air Force duty. He took his residency at Miller Hospital, where he now teaches, as well as at St. Joseph's Hospital. Married to Marion Wilke of St. Paul, his family includes four youngsters from 9 to 4 in age.

Leonard Goldman is a psychiatrist in Minneapolis, and clinical associate professor at the Medical School. He married Helma Klein of St. Paul and they have two children, ages 12 and 11. Len enjoys fishing, boating, golf and plays the cello with the St. Paul Civic Orchestra.

H. A. Gull is deceased.

Lt. Col. Alan Hopeman,* AUS, is chief of the thoracic and cardiovascular service, Fitzsimons General Hospital in Denver, Colo. He is on the clinical faculty of the U. of Colo. Medical School. His eldest son is 19 and a sophomore at Carleton College; the second son entered Macalester this Fall. Two more boys and a daughter, ranging in age from 15 to 6, are at home.

*Member, Minnesota Medical Foundation
Arvid Houglum recently received his M.S. in Public Health from the U. of M., and has assumed the post of Director of Student Health Services at Mankato State College. He was a flight surgeon with the Air Force in Korea and Japan, and is married to Winifred Steinfeldt. They have four children.

Gerald E. Howe has been a urologist for ten years and is located in San Diego, Calif.

Lt. Col. Heber S. Hudson is an Army psychiatrist, stationed at Kaiserslautern, Germany, having spent his entire medical career with the U.S. Army Medical Corps.

John Indihar* has a radiological practice covering four hospitals in northeast Oregon. He studied at the Minneapolis V.A. Hospitals, and married Marion Hartzberg of Minnesota. They have two daughters, ages 10 and 11. John writes, “We are enthralled with this part of the country which has everything except crowds of people. We ski and golf and I took up flying three years ago, which is useful in making the rounds of my rather far-flung practice and for trips to metropolitan areas.”

Warren Jensen has spent 14 years in general practice in Memphis, Tenn. His wife is the former Harriette Larsen of Little Falls, Minn., and they have five children, ages 22 to 5.

Edward Johnson has practiced internal medicine at the Oxboro Clinic in Minneapolis since 1958. He took his residency at the Minneapolis V.A. Hospital and served in the Army in the U.S. and West Germany. Ed’s wife, Shirley Gaffney, is a R.N., and they have six children, ages 21 to one.

Roger Johnson practices general surgery in Corpus Christi, Texas, and teaches in the intern training program at Memorial Hospital and resident training program at Driscoll Hospital. He received his M.S. in surgery from the U. of M., and married Marilyn Clark of Duluth. They have four children and “will spend the remainder of our days in beutiful Corpus Christi, with time out for skiing in Taos or basking in the Caribbean sun at our Jamaica home.” The Johnson family will travel to Malaya for a month this winter to a mission hospital where Roger “will put Marilyn to work as a nurse.”

Sherm Kieffer has been in governmental medicine since 1951 and a psychiatrist with the USPHS Hospital in Ft. Worth, Texas for the last four years. He teaches at Southwestern Medical School and T.C.U. Sherm married Natalie Kolb of St. Paul, and they have three children, ages 15 to 11, “and one on the way any day now. There is still life in the old boy! I am broken-

*Member, Minnesota Medical Foundation
hearted that I cannot participate in the reunion, but this is the price one has to pay for virility and unplanned parenthood.”

Robert Kochsieck* and his wife, Lois Pilot of St. Paul, live with their three children in Woodland Hills, Calif., where he is an orthopedic surgery partnership. His Air Force duty was in Casablanca, French Morocco. Bob writes: “You can’t beat living in the San Fernando Valley.”

John Kosiak, Jr. is deceased.

Per Langsjoen is chief of cardiology at the 75-man Scott and White Clinic in Temple, Texas, “and has ample time for research and teaching.” He was board certified in internal medicine in 1957 and in cardiology in 1960. Per married Carol Marti of New Ulm and their five children range in age from 17 to 7. “To some degree,” he writes, “I have become a Texan, but get back to Minnesota every summer.”

Don Larson* is a pathologist at St. Mary’s Hospital in Duluth, and teaches at the St. Scholastica Medical Technology School. He took his residency at the Minneapolis V.A. Hospital and served in the Army in Japan and Korea. Don married Leona Graepp of North Dakota, and they have four children, ages 10 to 2.

Roger C. Larson* is associated with his brother, Donald Larson, in Minneapolis, in OB-GYN practice. He spent two years after graduation in the Navy. Married to Elaine Hamilton of Minneapolis, the Larsons have two children, ages 7 and 5.

Richard Leavenworth, now on the clinical staff of the Medical School, practices ophthalmology at the St. Louis Park Medical Center. His wife, Ann Athens, is from Duluth. They have three children, ages 12 to 6.

Bart Lewis* is in private dermatology practice in Colorado Springs, Colo., and teaches at the U. of Colo. Medical Center. He trained at the Mayo Clinic, and is married to Estelle Muskin of Iowa. They have five sons, ranging in age from 13 to 6. Bart serves as president of the Colorado Dermatological Society. The family enjoys jeeping, hiking and mountain climbing. He writes, “How about having the next reunion in the summer so we can show Minnesota to our children.”

Naomi Lund Craig is physician in charge of the Macon County Public Health Immunization Clinic and Well Baby Clinic in Decatur, Ill., and “unofficial” resident in anesthesia at Decatur and Macon County Hospital. She retired from parttime pediatrics practice a year ago to assume her present duties.

*Member, Minnesota Medical Foundation
Naomi married Robert L. Craig, a general surgeon and Ph.D., and they have five children, ages 18 to one years. She writes: "If any of you should ever be lost in the cornfields of Central Illinois, please give us a call."

Terry McManus* went to South Dakota with his wife, Rosella Hirsch of Fosston, Minn., and their three children. Three additions were made and the McManus clan now numbers six, ages 8-19. Mac is in partnership with Dean Roscoe at Wessington Springs, S.D.

Robert Meade is chief of the radioisotope service at the V.A. Center in Wood, Wis., and assistant professor of medicine at Marquette University. Bob is a Fellow of the American College of Physicians, and is married to the former Hazel Thompson of St. Paul. Their family of six children includes identical twins James and Jeffrey, age 3.

Ralph Meincke* sends "regards to John Allen, Terry McManus and the entire group" from North Bend, Ore., where he has been for 14 years. A GP, he trained at Cook County in Chicago. Mrs. Meincke is Gladys Witte of Wabasha, and there are three children, ages 23, 18 and 12.

Bob Meyer* has been in general practice in Bethany, Okla. since graduation. He's married to Betty Yadon of Wisconsin. They have five children.

V. E. "Ed" Mikkelson* practices physical medicine and rehabilitation with the San Leandro Medical Group in Hayward, Calif. He took his residency at the Portland V.A. Hospital, and teaches at the Alameda County Hospitals. Ed's wife is the former Mary Binder of Illinois, a U. of M. graduate, and they have six daughters (count 'em), ages 18 to 10.

Fritz (Charles) Miller* writes from San Francisco that following his residency in urology at the U. of M., he joined two urologists in partnership at 909 Hyde St. He also spent three years in the USPHS and married Catherine Carey of Two Harbors. Fritz is proud of his eight children, ranging in ages from 13 to 1, and takes honors for having the largest family in the Class of 1950.

J. Patrick Moran* has an ENT practice in Corpus Christi, Texas, and teaches at the Medical Branch in Galveston, where he also took his residency. He and his wife, Nancy Patti of New York City, have two daughters and one son.

Charles H. Nelson is in general surgery practice in Albany, Ore. He took his residency at the Minneapolis V.A. Hospital,

*Member, Minnesota Medical Foundation
and is a diplomate of the American Board of Surgery. Chuck’s wife, Wilhina, is from Mound, Minn., and they have four children, ages 15 to 6.

Norman A. Nelson* is chief of the hematology section at Wayne County General Hospital, Eloise, Mich., and assistant professor at the University of Michigan Medical School. Norm is active in a number of medical organizations, particularly in the cancer field. His wife, Emma, also an M.D., is director of the infirmary and general hospital divisions at Wayne County General. They have two children, and Norm writes, “Although Michigan has been kind to me, I must admit that I probably shall never be free of the desire to ‘return home’ to Minnesota. My best to all.”

Dave Norman* is in a neuropsychiatry partnership with Ernest M. Hammes (Med. ’06) and E. M. Hammes, Jr. in St. Paul, and teaches at the St. Paul Outpatient Clinic. He and his wife have four children, including twins John and Will, age 11 and “not identical!”

Steve Normann has been in solo general practice in Waseca, Minn. since 1951. He married Agnes Engell of Spring Grove, Minn., and they have a daughter, Sarah, age 8.

Mark Odland is in general practice in the Detroit Lakes, Minn. Clinic with five other physicians, including James F. Knapp (Med. ’60) and John B. Rutledge (Med. ’51). He is married to Ruth Jost, and they have four children, ages 16 to 11.

John O’Leary* has practiced internal medicine with the Northland Clinic in Brainerd for ten years. He took his training at the Minneapolis V.A. Hospital and at the Medical School, where he has taught in the Comprehensive Clinic program. John recovered nicely from a severe coronary a few years ago. He’s active in the Minnesota Heart Association, and is married to Jean Macheledt of Buffalo Lake. They have four children.

D. L. Olson is deceased.

Mel Oppen* has been in general practice with classmate Pat Rollins in Minnetonka, Minn. for 13 years. His wife is the former Phyllis Franchere of Lake Crystal, Minn., and they have three children, ages 15 to 10, including sons who are boat racing and swimming champions.

After residency in surgery at the Minneapolis V.A. Hospital, Neil Palm* joined the surgery practice of Vernon Smith, Mal Pearson, et. al., in St. Paul. His wife, Mariellen Frank, and four

*Member, Minnesota Medical Foundation
children, ages 15 to 7, are avid skiers. Neil is immediate past president of the U. of M. Medical Alumni Association.

P. A. Peterson is deceased.

Konnie Prem* is a fulltime associate professor of OB-GYN at the U. of M. Medical School. He is married to the former Phyllis Edelbrock of St. Cloud, Minn., and they have three children, ages 15 to 8.

Bob "Bud" Premer* has been chief of orthopedic surgery at the Minneapolis V.A. Hospital for 13 years and teaches at the Medical School. He served with the Army in Japan, Korea and Germany, and married Ruth Sampson of Wisconsin. They are parents of twins, Sidney and Donna, age four.

Art Quiggle is a physical medicine and rehabilitation specialist in Minneapolis, and teaches at the Medical School where he took his training. He married Anne Kuhlmann of Melrose, Minn., and they have a family of five, ages 13 to 2.

Pat Rollins* has practiced general medicine in Minnetonka, Minn. for 10 years. He is married to Sue Strickland of Missouri, and they have a son, James, age 18, a student at Drake University. Pat "likes to fish, collects a few coins and attempts golf."

Ken Romness has been at the Mound, Minn. Medical Clinic for 14 years after a period with the USNR at Oak Knoll Hospital in Oakland, Calif. Ken's wife is Shirley Stone of Hopkins and they have four children, including twins David and Diane, age 10.

John Rosander has been a pathologist at San Mateo County General Hospital, Calif. for ten years. He took his training at Minneapolis General and the U. of Calif., S.F. His military service was spent in Korea. John sends his regards to all classmates.

George Rysgaard has been in general practice with a three-man group in Northfield, Minn. for 14 years. His wife is Frances Hupfer of Red Wing, and their children are Mary Ellen, 18, and Robert, 16.

Dick Sells is in general practice with a group in St. Paul, where he has spent 12 years. He and his wife have three children, ages 15 to 11.

Tom Semba* is a pathologist at North Memorial Hospital in Minneapolis and teaches at the Medical School. His training was at the U. of M., and the Minneapolis V.A. Hospital. His

*Member, Minnesota Medical Foundation
family includes his wife, Hannah Hayano, and four children, ages 12 to 5.

Mike Shelander settled in the Twin Cities after his residency in urology and is now in partnership with Murray Ersfeld (Med. '39) in St. Paul. Patricia Mold of Harris, Minn. is Mike’s wife and they have four children, ages 12 to 5.

Harry Smith* has practiced general medicine alone in Lake Crystal, Minn. since graduation. His wife is the former Barbara Nordstrom of Minneapolis, and they have five children, ages 14 to 5. Harry enjoys hunting, fishing and gardening.

Tom Spain* is associate director of clinical investigation at the Mead Johnson Research Center in Evansville, Ind. His special field is OB-GYN research, and he is chief of the outpatient OB-GYN Clinic at St. Mary’s Hospital in Evansville.

Michael Sperl,* his wife, Patricia Baskerville, and their two children live in St. Paul where Mike is practicing neurosurgery in the partnership of Ritchie, Merrick, Sperl. His training was completed at the Mayo Clinic. After graduation he spent two years in the U.S. Navy.

Bob Spurzem* practices general and vascular surgery alone in Santa Clara, Calif., and teaches at Orange County General Hospital. He writes that he plans to stay in Orange County, where he has been since his internship. Bob enjoys hunting, deep sea fishing and family outings with his four boys (ages 10 to 6) and his wife Shirley at their beach house.

Cliff Stadem* has practiced general medicine alone in Twin Valley, Minn. since graduation. His wife is Gladys David of Lake Crystal, and their family includes four boys and one girl, ages 13 to 6.

Jack Strand has been in general practice in Jasper, Minn. since his internship. He and his wife, Shirley, have three children, ages 15 to 12.

J. P. Streed is deceased.

George Tani* has practiced ophthalmology at the Lowry Medical Arts Building in St. Paul for ten years, and is on the faculty of the Medical School. He took his residency at the Mayo Clinic and married Hoshi Uchiyama of Seattle. They have three children, ages 18 to 8.

Al Walonick is in general practice in Hopkins, Minn. He and his wife, Beverlee, have three sons and live at 715 Oak Ridge Rd.

*Member, Minnesota Medical Foundation
David Webster* is assistant chief of the Neurology service at the Minneapolis V.A. Hospital, where he has been for 14 years, and teaches at the Medical School. He married Christine Furman (an M.D.), of Colorado and they have two sons, ages 14 and 7. Dave has been doing research in Parkinson’s Disease for the past 7 years. Dave enjoys boat building and fishing and recently boated 200 miles up the Colorado River above the Glen Canyon Dam.

O. Lewis Zahrendt* has practiced general medicine alone for 14 years in Minneapolis. He took additional training at the Universities of Geissen, Germany; Zurich and Vienna, and is a life member of the U.S. Medical Society of Vienna. Prior to his medical career he was a high school teacher and administrator for ten years, and later instructor in physiology at the U. of M. Lew enjoys coin collecting and is restoring an antique 1932 Rolls Royce. He is married to Dolores Jolicoeur of Waverly, Minn., and their daughter, Mardi, is an R.N.

Robert G. Ziegler is in general practice in North Platte, Neb. He and his wife, Bernice, have five children and live at E. Tryon Route.

The following members of the Class of 1950 did not respond to the survey:

- Philip Christenson*
- Henry Cohen*
- Matthew Gruber
- John Hayes
- Chester Johnson
- Leighton Larson
- Eugene Peake

*Member, Minnesota Medical Foundation
Erythropoietic Protoporphyria*  
(A Cause of Sunlight Sensitivity)

Edward S. Peterka, M.D., M.S.,†  
Ramon M. Fusaro, M.D., M.S., Ph.D.,‡ Walter J. Runge, M.D.,§  
Manuel O. Jaffe, M.D., M.S.,∥ and  
Cecil J. Watson, M.D., Ph.D.**

Erythropoietic protoporphyria is a familial disease in which cutaneous sensitivity to sunlight is the principal symptom. Clues to diagnosis are found in symptoms, history, and laboratory studies. Burning, itching, and prickly sensations of sunlight-exposed skin usually occur within minutes following exposure. Edema and purpura may become severe. Prolonged exposure may lead to eczematization and leathery thickening of the skin with occasional scarring. Bullae and urticaria are uncommon. Onset is usually before five years of age.

At University of Minnesota Hospitals, we are following seven patients, who are living in Minnesota. Their symptoms occur from March through October, but may also be present on warm sunny days in winter. Exacerbations are not related to trauma, drugs, alcoholic intake or hepatic disease. Window glass is not protective and itching or burning of sun-exposed skin may occur while riding in a car with closed windows. An autosomal dominant pattern of inheritance is present. Male to male transmission rules out X-linkage. Our studies of the hereditary aspects of the disease are not yet complete. Hemogram, hematocrit, reticulocytes, platelets, serum iron binding capacity, thymol turbidity, BUN, and urinalyses usually are normal although hemolytic anemia has at times been noted. Porphyrin studies show marked elevation of erythrocyte protoporphyrin, usually in excess of 500 μg./100 ml. red cells, often 1000-2500 μg. (normal: 15-65 μg./100 ml.). The concentration of protoporphyrin in blood plasma and feces is

*From a report to the Staff Meeting of University Hospitals on October 8, 1965  
†Medical Fellow Specialist, Division of Dermatology  
‡Assistant Professor, Division of Dermatology  
§Research Associate, Department of Medicine  
∥Clinical Instructor, Division of Dermatology  
**Distinguished Service Professor and Head, Department of Medicine
generally very high, the plasma normally having none. Coproporphyrin of the erythrocytes is often increased but the porphyrin values in the urine are entirely normal. Using fluorescence microscopy, the majority of red cells in bone marrow and peripheral blood smears are seen to exhibit red fluorescence.

Biopsy of affected skin is of considerable interest. With hematoxylin and eosin-staining, large amounts of hyaline material surround blood vessels of the upper corium. Sections pre-treated with salivary amylase are strongly periodic acid-Schiff-(PAS)-positive. Elastic fibers are displaced by the hyaline material, but appear normal with orcein staining. Histochemical studies with PAS, Alcian blue, toluidine blue, Sudan black-B, ninhydrin-Schiff, and Congo red (with and without pretreatment with boiling acetone), pepsin, and testicular hyaluronidase show the material to be acidic carbohydrate-protein-lipid complex. Skin from covered areas is normal clinically and histologically, suggesting that radiation from sunlight is a factor in cutaneous changes.

When the cells are exposed to appropriate light abnormal hemolysis of red cells is readily demonstrated. When red cells are diluted in Ringer's solution (1:250) and exposed to black light fluorescent tubes (3800-4000 A) hemoglobin is observed in the supernate after centrifuging. The rate of hemolysis is related to the amount of exposure and to the red cell protoporphyrin concentration. This abnormal hemolysis has not been observed in cases of lead poisoning or iron deficiency anemia which also have increased erythrocyte protoporphyrin. Further studies are necessary to determine whether the hemolysis in protoporphyria is related to greater concentration of protoporphyrin in the red cells. Black light exposure of red cells in patients with certain other types of sunlight sensitivity including polymorphic light eruptions, hepatic cutaneous and acute intermittent porphyria, produces no hemolysis.

Sunscreens and avoidance of sun provide some protection to patients with erythropoietic protoporphyria. Protection of our patients was successful with a combination of dihydroxyacetone and lawsone in a topical vehicle. Daily applications were necessary, depending upon severity of symptoms, amount of exposure, and the individual characteristics of the patient's stratum corneum. The patient must be free of any eruption before protection can be successful. Washing, bathing, and swimming are possible without loss of protection or need of immediate reapplication of the topical mixture thus allowing patients to participate in normal outdoor activities.
The mechanism of hemostasis in man involves a complex interaction of tissue, vascular, plasmatic, and cellular components. Among the several elements involved in preserving hemostatic balance, the blood platelets are uniquely endowed to serve a critical role. The platelet is the smallest and last to be recognized of the formed elements of circulating blood. Despite minute size and deceptive simplicity platelets are compact units of actively metabolizing protoplasm poised for immediate action against the smallest injury to the vascular system in which they are contained.

The major functions of platelets are: (1) to form hemostatic plugs at sites of vascular injury, (2) to supply an essential lipid substance to the system of intrinsic coagulation, (3) to provide energy for retraction of the formed blood clot. Other aspects of platelet physiology are important, but are beyond the scope of this brief report. (See, INT. REV. CYTOL. 17:99, 1964 and THE PHYSIOLOGY OF BLOOD PLATELETS. New York, Grune and Stratton, Inc. 1965 and PROC. MAYO CLINIC 40:625, 1965.)

The adherence of platelets to one another has been related to the action of the nucleotide, adenosine diphosphate (ADP). Platelets are known to be rich in enzyme systems yielding high concentrations of adenosine triphosphatase (ATP). Hydrolysis of platelets ATP by the enzyme adenosine triphosphatase (ATPase) yields ADP. ATPase activity in platelets appears to be in two forms, one associated with mitochondria and another combined with a contractile protein similar to acto-myosin of muscle. Techniques of ultrastructural histochemistry have revealed localization of platelet ATPase activity in platelet mitochondria, surface membranes and possibly to intracellular membranes. The presence of ATPase activity in the cell wall may be related to the hydrolysis and release of ADP important

*From a report to the Staff Meeting of University Hospitals on October 8, 1965
†Assistant Professor, Department of Pediatrics

in platelet aggregation. If the cell wall ATPase is part of a contractile protein, ATP-ATPase system, the alterations in the cell wall during pseudopod formation can be readily explained. The deep indentations in the cell between pseudopods, bringing parts of the cell membrane adjacent to the altered platelet granules may be due to internal cell membranes with contractile protein ATPase activity. An internal system of membranes is apparent in gluteraldehyde fixed cells, and ATPase activity is present in some of them.

The intimate association of platelets with the mechanism of intrinsic coagulation is generally accepted. Shortly after induction of clotting the altering platelets supply a lipid substance, probably a phospholipid, to the clotting mechanism. The platelet lipid substance forms a complex with activated clotting factors which, in the presence of calcium and factor V (labile factor), promotes a maximal rate of conversion of prothrombin to thrombin. Although other blood cells on extraction yield phospholipids which can replace platelets in \textit{in vitro} coagulation systems, only platelets appear capable of making their phospholipids available under the stimulus of physiologic blood coagulation.

Examination of native platelets from native platelet rich plasma ("native" indicates collection without anticoagulant) fixed in gluteraldehyde before osmic acid has indicated the probable localization and form of the platelet lipid activity. Early in clot development platelet granules undergo a transformation from lipoprotein complexes into phospholipid micelles. These multilayered particles penetrate through the cell membrane into the surrounding plasma before cell aggregation. The physical structure of the platelet phospholipid micelles derived from the granules is identical to the structure of micelles of phospholipids extracted from platelets, brain cephalin, soybeans and to pure phospholipids such as phosphotidylethanolamine. All of the latter derived lipids can readily replace platelets in supplying lipid activity to \textit{in vitro} coagulation systems. The similarity in physical configuration and particle size of platelet lipid micelles to micelles of lipids which can substitute for intact platelets, the early release of platelet micelles during clot development in native platelet rich plasma, and their derivation from granules which, when isolated, can also replace intact platelets in supplying lipid activity to coagulation, suggest that platelet granules are the source of the platelet lipid activity. The phospholipid, therefore, is "hidden" in the granules in the form of lipoprotein complexes which transform into phospho-
lipid micelles, released from the cell in early clot formation. The fact that the phospholipid of platelets forms a sedimentable complex with activated clotting factors (product II), and that the role of platelet phospholipid appears to be as a surface upon which an active protein factor converts prothrombin to thrombin lend strong support to the ultrastructural observations.

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**Staff Meeting Report**

**The Impact of Automation on Laboratory Medicine**

Paul E. Strandjord, M.D.,† Esther F. Freier, M.S.,‡ and Paul J. Alexander, M.D.§

Increasing clinical demands for laboratory service have stimulated the development of automated and semi-automated systems of laboratory instrumentation. The increased amount of data thus produced has led to the need for electronic processing systems. Both types of systems are in the process of continuing improvement; moreover, recognition of their potential has already stimulated laboratory personnel to employ them for purposes other than data generation and distribution. Several of these new areas of application illustrate the impact of these systems on the practice of clinical medicine:

**Quality Control**

Rigorous control of quality is the most important requirement for a clinical laboratory. A number of quality control techniques are employed routinely in clinical laboratories today; however, computer techniques have made it possible to add additional quality control procedures.

Electrolyte determinations provide an example of the potential value of the digital computer in the maintenance of quality

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*From a report to the Staff Meeting of University Hospitals on October 22, 1965
†Assistant Professor, Department of Laboratory Medicine
‡Associate Professor, Department of Laboratory Medicine
§Assistant Professor, Department of Laboratory Medicine
control. If normal values for sodium, potassium, chloride and bicarbonate are established, it is possible to program a computer to categorize each unknown which is analyzed as being within, above, or below normal limits. If all four electrolytes are determined, as is usually the case, there are 81 possible electrolyte patterns. About half of these patterns are observed infrequently. Statistically they occur about once in a thousand sets of electrolytes. When an unknown serum sample is analyzed for the four electrolytes, the results are routinely transmitted from the laboratory to the computer center. If the pattern is "reasonable," it is transmitted from the computer center to the station. If the pattern is one that occurs quite uncommonly, the specimen number and reported values are transmitted back to the laboratory for repeat analysis. If the initial results are confirmed, they are sent to the station via the computer with a notation indicating confirmation of the unusual pattern of the determinations. The quality of laboratory work can obviously be improved by procedures of this type; however, in addition, it is anticipated that new pathological syndromes may be discovered by the application of this technique.

Statistical Applications

The potential of dealing with large volumes of patient data of known validity suggests even more refined methods of analysis on a statistical basis. Multiple variables can be analyzed simultaneously using high speed computers and correlations or exclusions hitherto unobtainable may be found.

Normal Values

The concepts of normal values for laboratory determinations are also being altered by application of the systems described above. Data is currently being compiled and analyzed on the basis of age, sex and physiological status. Additional variables such as occupation and ethnic background are also being considered in these studies.

Preventive medicine programs which include the concept of the individual patient's own normal values are also in progress. In these programs a battery of laboratory determinations is performed routinely on all patients to establish baseline values for each individual. Subsequent determinations are performed periodically and are compared with the previous values. The goal of these programs is to detect pathological processes before they become symptomatic. In this respect departures from a patient's own normal values established during a period of good
health are considered to provide the most sensitive indication of subtle changes in physiological status.

**Laboratory Systemic Review**

In several hospitals, batteries of admission laboratory examinations have proven useful. These examinations may be considered analogous to the review of systems in the routine history and physical examination. With some patients these techniques have permitted diagnoses to be confirmed or established earlier, therapy to be started sooner, and periods of hospitalization to be decreased.

Full implementation of these devices should contribute significantly to better patient care by providing more reliable information more quickly and at a lower unit cost. Skilled professional talents will be freed from the demands of clerical and repetitive routine for the development and implementation of newer concepts in basic biology to clinical situations.

Current goals of clinical laboratories include improved accuracy, precision and speed of measurement on samples of smaller volumes in conjunction with improved systems for processing, reporting, and retrieving laboratory data. Achievement of these goals will depend on creative ideas, efficient organization, and the availability of highly trained personnel and appropriate facilities.
Medical School News

Faculty Promotions Announced

Sixty-three members of the College of Medical Sciences faculty received promotions in rank or administrative position effective July 1, 1965. They were among 281 University faculty members whose advancements were announced by President O. Meredith Wilson as the University of Minnesota opened its doors for the 1965-66 school year. More than 36,000 full time students are enrolled on the Main Campus, including approximately 600 in the Medical School. Additional students at the University of Minnesota, Morris, and University of Minnesota, Duluth, bring total enrollment to more than 42,000 full time students.

College of Medical Sciences faculty promotions included:

**Administration:** Assistant Dean Robert J. McCollister to assistant professor of anatomy.

**Anatomy:** Anna Mary Carpenter to professor; G. Eric Bauer to assistant professor.

**Microbiology:** K. Gerhard Brand to professor.

**Medicine:** Alvin L. Schultz to professor; A. Boyd Thomes to clinical professor; Ralph C. Williams to associate professor; Dean Rizer to clinical associate professor; Robert E. Eliot and Jack A. Vennes to assistant professor; Paul F. Bowlin, Paul D. Redleaf, and A. McDonnell Richards to clinical assistant professor.

**Obstetrics & Gynecology:** Erick Y. Hakanson and Rodney F. Sturley to associate professor.

**Pediatrics:** Paul G. Quie and Joseph W. St. Geme to associate professor; S. Lane Arey and Elizabeth Lowry to clinical associate professor; Alfred F. Michael to assistant professor; William D. Bevis, Henry P. Staub, Edward L. Strem and John D. Tobin to clinical assistant professor.

**Physiology:** Charles Edwards to professor; Richard Purple to assistant professor.

**Pharmacology:** Akira E. Takemori to associate professor; Nelson D. Goldberg to assistant professor.

**School of Public Health:** Byron W. Brown and E. Gartly Jaco to professor.

**Laboratory Medicine:** Verna Rausch, Lorraine M. Gonyea, and Jorge J. Yunis to associate professor.

**School of Nursing:** Helen B. Hansen and Frances D. Moncure to assistant professor.
University Hospitals: George Tani to clinical associate professor.

Surgery: John F. Perry, Jr. to professor and director of surgery, Ancker Hospital; Edward W. Humphrey to professor; Baxter A. Smith, Jr., to clinical professor; Shelley N. Chou to associate professor; Jacob H. Strickler to clinical associate professor; Harrison H. Farley and John H. Linner to clinical assistant professor; Sewell Gordon and Donald H. Peterson to clinical associate professor; J. Paul Leonard, Shih H. Tsai, and Arnolds Veinbergs to assistant professor; Carroll N. Hess to clinical assistant professor.

Psychiatry and Neurology: Joseph A. Resch and Gordon T. Heistad to professor; Sidney Shapiro to clinical professor; Michael E. Blaw to associate professor; Donald M. Mayberg and Jennings C. Peteler to clinical assistant professor.

Biochemistry: James F. Koerner to associate professor.

Ophthalmology: William L. Fowlks to associate professor; Richard C. Horns to clinical associate professor.

Physical Medicine and Rehabilitation: Borghild Hansen and Bror Troedsson to associate professor; Thomas P. Anderson to clinical associate professor.

The Department of Pediatrics has honored Dr. Samuel B. Feinberg with its first “Golden Apple Award,” for outstanding devotion, dedication, and competency in clinical teaching. Dr. Feinberg, shown at left, with Dr. John A. Anderson, is a clinical professor of radiology who practices in Minneapolis. He has been on the Clinical faculty for 10 years. Dr. Anderson, head of Pediatrics, said the award would be presented annually to an “outstanding clinical teacher in the pediatric training program,” and is intended “to honor those who participate voluntarily in the department’s work.”
Freshman Profile: The Class of 1969

A "homegrown crop" of 152 young men and women began their medical school careers at the University of Minnesota on September 27, 1965. Ninety-four percent (all but 10 members) of the new Freshman Class are residents of the State of Minnesota. The other six percent came from mid-western states.

The 145 men and 7 women who were enrolled represent a total of 798 students who applied for admittance. They will spend two years in the basic sciences learning to know the healthy body and its disease processes; their final two years will consist of clinical training in the care of the ill. In four years, the academic metamorphosis will transform these newcomers into qualified doctors of medicine, and graduates of the Class of 1969.

The application rate of U.S. medical schools, including the University of Minnesota, has been rising. Here are the number of applicants to the University of Minnesota in recent years:

<table>
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<tr>
<th>Year</th>
<th>Applicants</th>
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<tr>
<td>1958</td>
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<td>1959</td>
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<td>1964</td>
<td>689</td>
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<tr>
<td>1965</td>
<td>798</td>
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</table>

Minnesota's 1965 Freshman Class appears as highly qualified as its predecessors of recent years, during which time the standards of pre-medical academic achievement have been marching upward. The new students scored a composite pre-medical grade point average of 3.21 (B+) on a scale where 4 = A, and 3 = B.

Only 31 of the Freshmen are married, and they are parents of only 12 children. For a number of reasons, the "marrieds" will rapidly overtake and soon outnumber the "singles" in the Class during the next four years. There are five Johnsons in the Class, including two named "Bruce E. Johnson." Anthony W. Holt of North Branch, Minn., was elected class president.

Eighty-three (54%) of the Freshmen already hold bachelor's degrees, and two hold master's degrees. Ninety-one (60%) spent their undergraduate years at the University of Minnesota, and all but 12 went to college somewhere in the State of Minnesota. Seventy-two (47%) are graduates of high schools in the Twin Cities area.

About half of the Freshmen have parents who have some college education. Twenty-six have fathers in executive-management capacities; 12 are salesmen; the remainder represent many walks of vocational life.

Seventeen Freshmen have fathers (or mothers) who are physicians, and seven are sons of alumni of the Medical School.

The Class Roster, showing hometown and pre-medical college(s), follows:
Anderson, Calvin F.  
Mitchell, S.D.  
S.D. State Univ.

Anderson, Clarence A.  
St. Paul, Minn.  
Univ. of Minn.

Anderson, David C.  
Rochester, Minn.  
Union College

Anderson, Darrel R.  
Edina, Minn.  
Univ. of Minn.

Anderson, William W.  
St. Paul, Minn.  
Univ. of Minn.

Beasley, John W.  
St. Paul, Minn.  
Harvard Univ.

Bergersen, Dean H.  
Minneapolis, Minn.  
Univ. of Minn.

Berglund, Roger D.  
Minneapolis, Minn.  
Univ. of Minn.

Bennan, Wallace F.  
St. Louis Park, Minn.  
Univ. of Minn.

Biljan, William E.  
Wauwatosa, Wis.  
Univ. of Wis.

Bowman, Robert J.  
Minneapolis, Minn.  
Univ. of Minn.

Buchanan, Wallace F.  
St. Louis Park, Minn.  
Univ. of Minn.

Berglund, Roger D.  
Minneapolis, Minn.  
Univ. of Minn.

Biljan, William E.  
Wauwatosa, Wis.  
Univ. of Wis.

Bowman, Robert J.  
Minneapolis, Minn.  
Univ. of Minn.

Brady, Dennis R.  
St. Paul, Minn.  
Univ. of Minn.

Bucher, Robert L., Jr.  
St. Paul, Minn.  
St. Thomas College

Burns, Robert W.  
Minneapolis, Minn.  
Gustavus Adolphus

Burns, Richard S.  
Minneapolis, Minn.  
Univ. of Minn.

Caed, Timothy J.  
Minneapolis, Minn.  
St. John's Univ.

Carlson, Gary S.  
Excelsior, Minn.  
Univ. of Minn.

Carlson, Richard W.  
Duluth, Minn.  
Univ. of Minn.

Carlin, Keith V.  
Minneapolis, Minn.  
Augsburg College

Cook, Dennis D.  
St. Paul, Minn.  
Univ. of Minn.

Cooper, James M.  
Rochester, Minn.  
Dartmouth College

Cram, Kenneth B.  
Minneapolis, Minn.  
Univ. of Minn.

Crane, Paul H.  
St. Paul, Minn.  
Univ. of Minn.

Curtner, Lynn R.  
St. Paul, Minn.  
Univ. of Minn.

Dahl, William A.  
Thief River Falls, Minn.  
Bemidji State

Daleiden, James P.  
Albert Lea, Minn.  
Marquette Univ.

DeHaan, Eddie D.  
Manhattan, Mont.  
Montana State

Doebler, William C.  
Red Wing, Minn.  
Hamline Univ.

Doorneweerd, Dennis D.  
Annandale, Minn.  
St. Cloud State

Daleiden, James P.  
Albert Lea, Minn.  
Marquette Univ.

DeHaan, Eddie D.  
Manhattan, Mont.  
Montana State

Doebler, William C.  
Red Wing, Minn.  
Hamline Univ.

Dahl, William A.  
Thief River Falls, Minn.  
Bemidji State

Daleiden, James P.  
Albert Lea, Minn.  
Marquette Univ.

DeHaan, Eddie D.  
Manhattan, Mont.  
Montana State

Doebler, William C.  
Red Wing, Minn.  
Hamline Univ.

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THE MEDICAL BULLETIN

Leino, Walter B., Jr.
Minneapolis, Minn.
Univ. of Minn.

Lewis, Darrel V., Jr.
Mankato, Minn.
Mankato State
Univ. of Minn.

Lindahl, Stephen A.
Sleepy Eye, Minn.
Univ. of Minn.

Lindau, Mark S.
Aberdeen, S.D.
Univ. of Minn.

Lindquist, W. Leland
Minneapolis, Minn.
Trinity College
Univ. of Minn.

Lubitsz, Thomas
Brookfield, Wis.
Univ. of Wis.

Lund, Kristofer T.
Mankato, Minn.
Mankato State
Univ. of Minn.

Lundblad, Conrad H.
Minneapolis, Minn.
Augustana College
Univ. of Minn.

Maybury, James R.
Foley, Minn.
St. John's Univ.

Mayer, Thomas G.
Minneapolis, Minn.
Hamline Univ.

Morgan, John C.
Minneapolis, Minn.
Hamline Univ.

Munson, David P.
Minneapolis, Minn.
Bethel College

Nelson, David O.
Minneapolis, Minn.
Univ. of Minn.

Nelson, Fredric P.
St. Cloud, Minn.
St. Olaf College

Nelson, Penelope E.
Menasha, Wis.
St. Olaf College

Norback, Bruce A.
Edina, Minn.
Macalester College

North, Charles M.
Olivia, Minn.
Univ. of Minn.

Nystrom, Gary L.
Minneapolis, Minn.
Univ. of Minn.

O'Connell, Michael J.
Hopkins, Minn.
Univ. of Minn.

Olson, Dennis H.
St. Louis Park, Minn.
St. Olaf College

Olson, Peter R.
Duluth, Minn.

Perschau, Richard A.
Glencoe, Minn.

Peterson, Garry F.
Minneapolis, Minn.
Hamline Univ.

Peterson, J. David
Hopkins, Minn.
Lawrence College
Univ. of Minn.

Powell, Richard M.
Stillwater, Minn.
Univ. of Minn.

Quale, James L.
Willmar, Minn.
Univ. of Minn.

Read, Ralph L.
Minneapolis, Minn.
Princeton Univ.

Reiman, Herbert M., Jr.
W. Caldwell, N.J.
Univ. of Minn.

Roth, James A.
Minneapolis, Minn.
College of St. Thomas

Seim, Harold C.
Spring Valley, Minn.
Rochester Jr. College
Univ. of Minn.

Skow, Joseph I.
Mound, Minn.
College of St. Thomas
Univ. of Minn.

Solem, Lynn D.
Browerville, Minn.
Univ. of Minn.

Spence, Bert R.
Minneapolis, Minn.
Univ. of Minn.

Spilseth, Paul M.
Kensington, Minn.
Concordia College

Steffes, Michael W.
Minneapolis, Minn.
Harvard Univ.

Stennes, Richard L.
Bemidji, Minn.
Univ. of Minn.

Strickler, Jeffrey H.
Excelsior, Minn.
Carleton College

Stuart, David D.
Indianapolis, Ind.
Univ. of Minn.
PEDIATRICS

Dr. Joseph W. St. Geme, Jr., will move to California in mid-December to accept an appointment as chief of pediatrics at Harbor General Hospital and associate professor of pediatrics at UCLA School of Medicine. Dr. St. Geme, 34, has been at Minnesota since he was an intern at Minneapolis General Hospital in 1956-57 following his graduation from Stanford University School of Medicine. He has held various teaching and research posts here since then in both the Departments of Microbiology and Pediatrics, and is presently an associate professor in Pediatrics, Microbiology, Laboratory Medicine, and is Medical Director of the University Hospitals Diagnostic Microbiology Laboratory.

Dr. St. Geme is a native Californian. In returning to teach in the Los Angeles area, he rejoins his recent pediatric colleagues at Minnesota, Dr. Robert Ulstrom and Dr. Robert Vernier, now pediatricians at UCLA. The St. Gemes will live in Palos Verdes, Calif.

DERMATOLOGY

The 50th Anniversary of the Minnesota Dermatological Society was commemorated in a four-day program held September 9-12, 1965, at the Medical School and at the Mayo Clinic. Eighteen scientific papers were presented by dermatologists currently on the Minnesota staff, or formerly trained in the Division. Total registration at the Minneapolis and Rochester sessions was 400, with guests coming from 20 states and Canada.
Sixty Students Receive Foundation Scholarships

Sixty students at the Medical School received scholarships valued at $33,250.00 from the Minnesota Medical Foundation for the 1965-66 academic year.

They were honored at the Annual Meeting of the Foundation held September 27th. The Foundation is a nonprofit organization of 2,800 doctors and laymen, providing private assistance to the University of Minnesota Medical School.

Speakers at the Annual Meeting were Dr. Vernon D. E. Smith, Foundation president; Dr. N. L. Gault, Jr., secretary-treasurer; and Mr. Eivind Hoff, Jr., executive director. They presented the 1965 Annual Report of the Foundation to approximately 130 members and guests who attended.

Three new members of the Board of Trustees were elected. They are: Dr. Jerome A. Hilger, St. Paul; Mrs. Frank W. Bowman, Minneapolis; and Mr. T. Richard Anderson, Minneapolis. Re-elected to four-year terms were Mr. B. C. Gamble, Minneapolis; Dr. Karl W. Anderson, Minneapolis; Dr. Herman E. Drill, Hopkins; Mr. James C. Harris, Minneapolis; Mr. James E. Kelley, St. Paul; Dr. Russell O. Sather, Crookston, Minn.; and Dr. Vernon D. E. Smith, St. Paul. The Board of Trustees now consists of 32 members, of which 19 are alumni of the Medical School.

The Foundation began its Scholarship Fund program in 1949, and has now distributed 502 scholarships worth a total of $264,020.00. Competition for the scholarships — each $500 or larger — is based on academic achievement and financial need.

Nearly 200 students (about one-third of the student body) entered the competition for the 1965 scholarships. Those winning scholarships were:

| Beecher, Nancy B., '66 | Fischer, James A., '66 |
| Bergman, John, '68 | Gebhard, Roger L., '69 |
| Bowman, Robt. J., '69 | Gerding, Dale N., '68 |
| Brown, David, '68 | Gillund, T. Dean, '66 |
| Carlson, Paul E., '66 | Goehle, Ruth M., '69 |
| Carlson, Richard E., '66 | Goese, Richard E., '69 |
| Carter, Kenneth R., '68 | Goetz, John R., '66 |
| Christensen, Robert D., '66 | Gramer, Lewis J., '67 |
| Custer, James R., '67 | Greden, John F., '67 |
| Donndelinger, Thomas M., '67 | Hester, James E., '68 |
| Erickson, Carlton R., '68 | Hoxtell, Eugene O., '69 |
The Foundation expresses gratitude to the following supporters of the 1965 Scholarship Fund:

Adams Clinic, Hibbing, Minn.  
Alpha Omega Alpha Honor Medical Society  
Bayport Foundation  
F. R. Bigelow Foundation  
Mrs. Frank W. Bowman  
Catholic Physicians Guild of St. Luke  
H. Mead Cavert, M.D.  
Ruth Cranston  
Mrs. Margaret B. Eichhorn Memorial Fund  
Finley & Friday, Inc.  
George Macpherson Fund  
M. Melvin Goldfine, M.D.  
Harold Gottlieb  
Granelda Foundation  
Leonora Greenberg Memorial Scholarship  
Lisa Brooks Gregory Memorial Fund  
Greystone Foundation  
Group Health Mutual, Inc.  
(George Feller Foundation)  
Hart Press, Long Prairie, Minn.  
Dr. & Mrs. F. W. Hoffbauer Memorial Fund  
Charles N. Hengel Memorial Endowment Fund  
Edwin and Grace Jaekle  
Harry A. Johnson Memorial Endowment Fund  
Margaret H. and James E. Kelley Foundation  
Mankato Clinic, Mankato, Minn.  
Samuel Maslon Foundation  
Mayo Foundation, Rochester, Minn.  
Mesaba Clinic, Hibbing, Minn.  
Minneapolis Foundation  
Minneapolis Gas Company  
Minnesota Society of Internal Medicine  
Minnesota Academy of Medicine  
Minnesota Society of Internal Medicine  
Modern Medicine Publications Foundation  
Nicollet-LeSueur County Medical Society  
Northwestern Clinic, Crookston, Minn.  
Northwestern Medical Association  
Nu Sigma Nu Medical Fraternity  
Norman D. Olson, M.D.  
Dr. Lawrence D. Pearson Memorial Fund  
S. B. Penick Foundation  
Alice and Gale W. Perry Endowment Fund  
Charles Pfizer & Co., Inc.  
Piper, Jaffray & Hopwood Foundation  
Postgraduate Medicine Foundation  
Rowell Laboratories, Inc.  
Ray Schweigert  
Mrs. Thelma Smalley  
Elmer H. and Margaret J. Smith Endowment Fund  
Vernon D. E. Smith, M.D.  
Mrs. John Pillsbury Snyder, Sr.  
Tozer Foundation  
Dr. Dale D. Turnalcliff Memorial Fund  
Twin City Federal Savings & Loan  
Dr. Percy A. Ward Memorial Fund  
Worthington Clinic, Worthington, Minn.  
Anonymous  
Anonymous  
Anonymous

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Alumni Notes

♦ 1944

Robert W. Goltz left Minneapolis on August 1 to become full time chairman of the Division of Dermatology at the University of Colorado School of Medicine, Denver, Colo.

Robert Guthrie has been awarded the $2,500 Kimble Methodology Prize for developing a new test method for detection of phenylketonuria, a cause of mental retardation, in infants. The award was presented by its sponsor, Owens-Illinois, Inc., in Chicago on October 18, 1965, and included a sterling silver plaque. Bob is a research associate professor of pediatrics at the S.U.N.Y. School of Medicine, Buffalo, N.Y. He has spent approximately 17 years in research at major institutions, with special interest in human biochemical genetics related to mental retardation. His prize winning test method was developed during his time at Buffalo, where he was appointed in 1958. The test allows quick, low cost screening of large numbers of infants shortly after birth and within the critical period for detecting potential PKU. The test is already required by law in 15 states. Bob lives with his wife and six children at 76 Academy St., Williamsville, N.Y.

♦ 1946

Alvin Schultz has been appointed director of the Department of Medicine at Hennepin County General Hospital, effective November 1, 1965. He succeeds the late Dr. F. W. Hoffbauer. He is presently chief of medical research and education at Mt. Sinai Hospital, Minneapolis, a post he has held since 1959.

♦ 1947

William B. Weil, Jr., a pediatrician at the University of Florida, was appointed Alfred I. duPont Professor of Pediatrics for the Handicapped Child, a newly-created post and program at the institution. He is a native of Minneapolis, and interned at Minneapolis General Hospital. He joined the faculty at Florida in 1963, and is director of the National Foundation's Birth Defects Center at the Gainesville institution.
Russell J. Eilers was promoted July 1, 1965 to professor of Pathology and Oncology at the University of Kansas Medical Center. He is also director of Clinical Laboratories. Russ lectured at three universities in South America this year. He writes that he was impressed by the caliber of medical research, especially in Peru, where there is great interest in the effects of high altitude on the human body.

James A. Donaldson is the new head of otolaryngology at the University of Washington School of Medicine. He was formerly on the faculty of the State University of Iowa School of Medicine.

Richard O. Lundborg was appointed consultant in anesthesiology at the Mayo Clinic, effective July 5, 1965. He and his wife live at 2320 Elton Hills Dr., Rochester, Minn.

Richard L. White writes from the University of Michigan where he is a second year resident in surgery, reporting the birth of a 6½ lb. daughter, Melinda, in April. Dick and his family live at 820 Edgewood Pla., Ann Arbor.

John C. Kelly is now associated in the practice of therapeutic radiology at Northwestern Hospital, Minneapolis, Minn., with Drs. Cyrus O. Hansen (Med. ’28), Rolf Iverson, and Robert E. Nord (Med. ’43).

Martin G. Weisberg was appointed a resident in obstetrics and gynecology in the Mayo Foundation, Rochester, Minn.

Malcolm I. Lindsay, Jr., writes from Ft. McClellan, Alabama where he is serving with the Army: “In July, 1966 I’ll return to the Mayo Clinic to complete my residency in Internal Medicine.” He has been in the Army since July, 1964. His address: 3635A Morton Rd., Ft. McClellan, Ala.

Charles L. Murray entered the U.S. Air Force on July 3, 1965, and is now assigned to the USAF Hospital at Scott AFB, Ill. He completed a residency in internal medicine at Stanford Medical Center. He and his wife now have a daughter and two sons.
1961

Joseph J. W estermeyer and his wife are now in Vientiane, Laos, working for the Agency for International Development. Mail will reach them c/o American Embassy, A.P.O. San Francisco, Calif. 96352.

1962

Capt. C. Arthur Anderson writes that the Air Force has assigned him, during his last year of duty, to the 1129 Special Activities Squadron, based at Bolling AFB, Washington, D.C. His duty station, however, remains in Las Vegas, Nev., where he lives at 1104 Yale St. Art expects to take a residency in OB-GYN starting July 1, 1966.

Paul R. Vandersteen is now in general practice with the Medical Arts Clinic, Minot, N. D. He completed two years with USPHS and was married June 16, 1963 to Bette Nelson, a nurse. They now have two sons and live at 136 25th St. SW., Minot.

Lt. Robert Wasson has returned to the University of Minnesota under Navy auspices to spend a year working for his Master's Degree in Administration in the School of Public Health. He recently completed 18 mos. duty in Alaska as a flight surgeon, and is presently living with his wife and two children at 940 Franklin Terr., Minneapolis 55414.

Eight members of the Class have begun residencies in the Mayo Foundation, Rochester, Minn., which is part of the Graduate School of the University of Minnesota. They are Roger J. Jackman (radiology), David E. Culligan (surgery), William D. Erickson (pediatrics), Robert C. Wood (neurologic surgery), Brian C. Campion (internal medicine), James M. Bilstad (internal medicine), John R. Sebald (orthopedic surgery), and Thomas A. Onstad (urology).

1963

Beverly M. Hallquist is a second year resident in psychiatry at Hillside Hospital, Glen Oaks, N.Y., and writes that she “is enjoying it very much.”

Creighton A. Holstad is a resident of internal medicine in the Mayo Foundation, Rochester, Minn.

Capt. Allen K. Larson, now on duty with the Air Force in Bangor, Me., writes: “I'm looking forward to returning to Minnesota to begin an ophthalmology residency at University Hospitals on July 1, 1966.”
Daniel J. Ullyot, a surgery resident at Boston City Hospital, Boston, was married August 31, 1965 to Miss Joan Wingate in Concord, Mass.

Donald Asp began general practice July 1, 1965 in Parkers Prairie, Minn.

Jackie M. Cooper and Rene Pelletier are both residents in ophthalmology at University of Minnesota Hospitals.

Roger A. Christgau is in general practice at 2645 First Ave. S., Minneapolis, with Drs. Jack Pewters (Med. ’37), Sherman Child (Med. ’52), and John Hiatt (Med. ’59).

James Demeules is a resident in general surgery at Ancker Hospital, St. Paul, Minn.

William J. Gundlach is now a resident in psychiatry at the Mayo Foundation, Rochester, Minn.

Capt. Lonnie L. Hammargren is a flight surgeon with the Army in Viet Nam. Mail will reach him via 940 Franklin Terr., Minneapolis, Minn. 55414, where his wife and two children are living.

Daniel A. Johnson is in general practice in Litchfield, Minn.

John H. Kersey is in the Army. His home address is 5620 Bernard Pl., Minneapolis, Minn. 55424.

David D. Lucas and his wife are now in North Carolina, training with the Peace Corps for two years of volunteer duty in Iran. His permanent address is 1244 Summit Ave., Detroit Lakes, Minn.

Grayson R. Osteraas has begun two years of Army duty, and is stationed at Ft. Polk, La. He lives at 304 Hickory St., Newland, La.

Evan H. (Bud) Peterson, Jr. is in general practice at the St. Croix Falls, Wis., Clinic.

Michael C. Rost is now on active duty with the Navy at the Marine Corps Air Station, Yuma, Ariz. He termed his internship “excellent” at Maricopa County Hospital in Phoenix.

Capt. Clyde W. Smith is with the Air Force in Europe. His address is 7373 USAF Hospital, APO, New York, 09010.

Edwin Tegenfeldt has begun a planned 4-year residency in general surgery at San Diego County Hospital, San Diego, Calif., where he also interned.
Alumni Deaths

♦ 1920

Dr. L. Haynes Fowler, Minneapolis, Minn. Died October 13, 1965 in Newport Beach, Calif., aged 69 years. He was a surgeon in Minneapolis for 35 years and formerly taught at the Medical School. Dr. Fowler served with the U.S. Army Medical Corps during World War I and World War II. He was retired from medical practice at the time of his death.

♦ 1930

Dr. Leonard T. Carlson, Minneapolis, Minn. Died October 19, 1965, aged 61 years. He was on the staffs of North Memorial and Glenwood Hills Hospitals in Minneapolis, and was an active churchman.

MEMORIALS

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

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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 acknowledge all gifts to both donor and next of kin.
University of Minnesota Medical School

CONTINUATION COURSES FOR PHYSICIANS
University of Minnesota
Center for Continuation Study

1965

October 25 - 29 ........ Radiology
November 3 - 5 .......... Ophthalmology (Refraction)
November 11 - 13 ...... Orthopedic Surgery
December 9 - 10 ...... Pulmonary Disease

1966

January 3 - 7 ......... Electrocadiography (Intermediate)
January 17 - 18 ...... Psychiatry
February 14 - 18 ...... Proctology
February 18 - 19 ...... Neurosurgery
February 21 - 23 ...... Neurology
March 10 - 12 .......... Obstetrics
April 1 - 2 ............ Trauma
May 2 - 4 ............. Ophthalmology
May 19 - 21 .......... Surgery
June 1 - 3 ............ 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 $50 for a two-day course, $60 for a 2½-day course, $70 for a three-day course, and $100 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