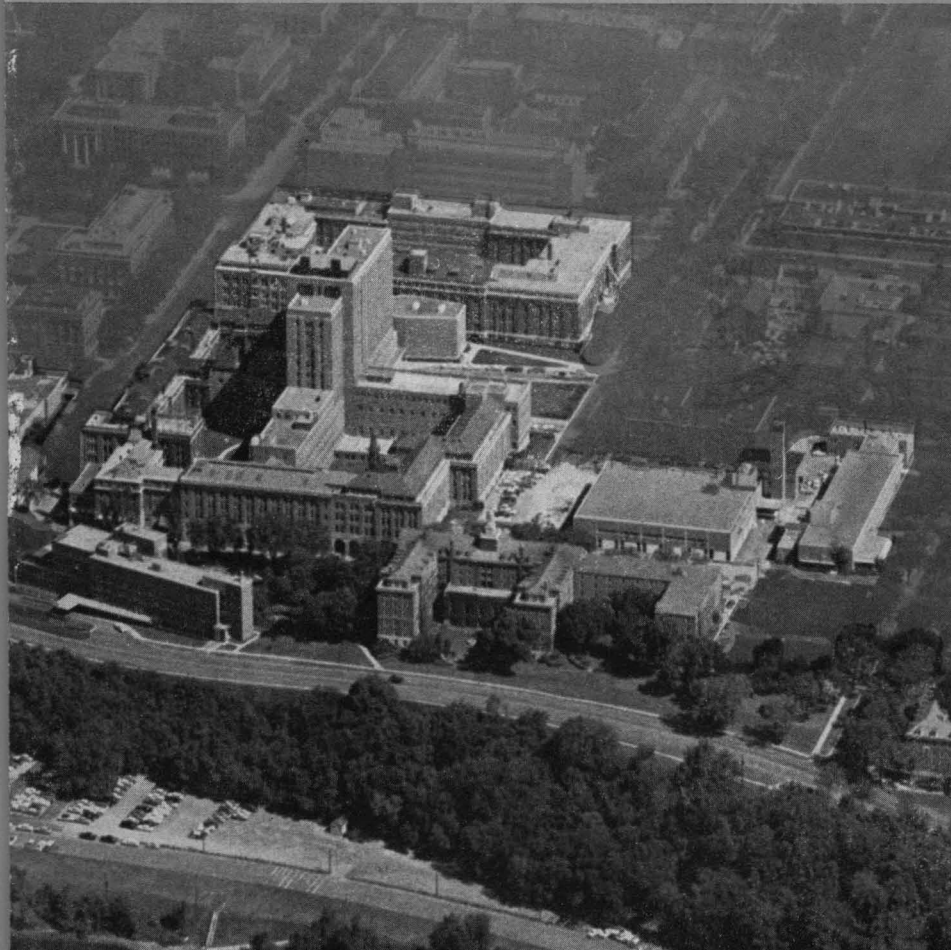


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University of Minnesota MEDICAL BULLETIN



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Staff Meeting Report

A Simple Radiographic Approach to the Diagnosis of Coronary Arteriosclerosis*

JOSEPH JORGENS, M.D., Ph.D.†

ARTHUR LIEBER, M.D.‡

ROBERT R. KUNDEL, M.D.††

RICHARD I. SAVAGE, Ph.D.‡‡

There is now a relatively simple method for detecting positive evidence of coronary arteriosclerosis in the intact man without the injection of contrast agent into the coronary arteries. In the Minneapolis Veterans Administration Hospital over the last five years, we have performed 1500 image-amplified fluoroscopic examinations of the heart with cinefluorography and it is our opinion that image amplified fluoroscopy is now the simplest method for detecting the presence of coronary calcifications within the heart. The fluoroscopic image may be recorded permanently on motion picture film (cinefluorography) if desired.

There is ample proof now that calcification in the coronary arteries is laid down in the same sites as atheromatous plaques. Therefore, calcification detected by image amplified fluoroscopy gives strong visual evidence of coronary arteriosclerosis. The purpose of this report is to outline this fluoroscopic method for detecting these calcifications and to show the relationship of coronary calcification to anatomical coronary arteriosclerosis and clinical ischemic heart disease.

* Presented at the Staff Meeting of the University Hospitals on February 1, 1963

† Professor, Department of Radiology, University of Minnesota

‡ Assistant Professor, Department of Radiology, University of Kentucky

†† Medical Fellow, Department of Radiology, University of Minnesota

‡‡ Professor, Department of Economics, University of Minnesota

The image amplified fluoroscope consists of a standard fluoroscopic unit combined with an amplifying tube, which together produces a bright fluoroscopic image. When a motion picture camera is mounted on this combination, the unit is called a cinefluorograph.

The image amplified fluoroscope has three distinct advantages, and is now practical for office cardiac fluoroscopy. It is no longer necessary to adapt the eye to use this modern fluoroscope, the radium dose used need be only 20 percent of that customarily used with the standard fluoroscope, and the image is bright and more detailed.

Our method of examining the heart fluoroscopically for evidence of coronary arteriosclerosis is as follows: In a 30 degree left anterior oblique view the *right* coronary artery can be visualized in the epicardial fat of the anterior portion of the atrioventricular groove. In a 60 degree left anterior oblique view, the *left* coronary artery can be identified in the posterior superior portion of the atrioventricular groove. The left coronary artery divides into the anterior descending portion which occupies the interventricular groove and the circumflex branch which occupies the posterior and inferior portion of the atrioventricular groove. In the 45 degree right anterior oblique view, the anterior descending branch of the left coronary occupying the interventricular groove can be seen pulsating in a vertical plane.

The right coronary which has a vertical course located in the midcardiac silhouette has a horizontal to and fro motion. Finally, in the right lateral view the right coronary artery is seen in a more anterior portion of the heart, vertical in position, and the anterior descending branch of the left coronary artery extends from the base of the aorta toward the sternum at approximately a 60 degree angle. If the left ventricle is enlarged, it will tend to be more horizontal in position.

Using this fluoroscopic technique, calcium can easily be detected in the coronary arteries of the aged individual. About 25 percent of Veterans Administration Hospital patients who are 50 or older, show some calcification of the

coronary arteries. This calcification is the result of the degeneration of the intimal and the medial wall of the coronary artery. We examined 62 autopsy protocols to determine the relationship between coronary calcification detected fluoroscopically and anatomical coronary arteriosclerotic heart disease as seen at autopsy. Of these 62 patients, 37 patients showed calcium in the coronary arteries fluoroscopically and considerable coronary arteriosclerosis at autopsy. Seventeen patients showed no calcium in the coronary arteries fluoroscopically but coronary arteriosclerosis was seen at autopsy. In three patients calcium was present fluoroscopically but no coronary arteriosclerosis was described at autopsy. Five patients showed neither coronary calcification fluoroscopically nor arteriosclerosis at autopsy.

In a recent pathological study of 667 post mortem hearts of individuals 15 years or older, Beadenkopf, Daoud, and Love at the Albany Medical Center Hospital, New York, showed a relationship between the presence of coronary artery calcification and myocardial infarction as well as increasing probability of infarction with increase in the number of coronary arteries calcified.

At the Minneapolis Veterans Administration Hospital of 630 consecutive cardiac cinefluoroscopic examinations on men mainly between ages 30 and 70 suffering from various types of known or suspected heart disease, 150 (23.8 percent) had coronary calcification. By clinical evaluation, 58 percent of these had arteriosclerotic heart disease; and 30 percent showed evidence of myocardial infarction on electrocardiograms. But from the remaining 480 patients not having coronary calcification, 80 patients were randomly selected, and 39 percent had clinical evidence of arteriosclerotic heart disease, and 10 percent had electrocardiographic evidence of myocardial infarction. More significantly, the incidence of clinical ischemic heart disease increased from 52 percent in those with one major coronary artery calcified to 83 percent in those with three major branches calcified. Therefore, there is a much higher incidence of myocardial infarction and ischemic heart dis-

ease in cases where coronary calcium is detected with the image amplified fluoroscope. Since coronary arteriography is still somewhat hazardous and difficult to perform, image amplified fluoroscopy (or cinefluorography if a permanent record is desired) may be used as an efficient screening procedure for the detection of potential candidates for ischemic myocardial disease at a time when no electrocardiographic changes, signs, or symptoms are present.

Staff Meeting Report

Evoked Responses by Multisensory Stimulation: Some Tentative Clinical Applications *

FERNANDO TORRES, M.D.†

It is now possible to record from the intact human scalp electrical responses to sensory stimulation. This is accomplished with new instrumentation techniques which allow the detection of these responses in the midst of the spontaneous background activity which in the waking subject is usually of higher amplitude than the evoked potentials and therefore, obscures them.

Potentials evoked by different sensory modalities have been the subject of much study in animals and have served, among other purposes, for mapping the "primary sensory receiving areas" in the cerebral cortex. The constant background electrical activity of the brain, however, acts as

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† Associate Professor, Division of Neurology, Department of Psychiatry and Neurology, University of Minnesota.

"noise" which makes the detection of the signal very difficult. In order to increase the signal-to-noise ratio, two main techniques have been employed: (1) Topical application of substances which increase the amplitude of the signal (i.e., strychninization) and (2) Use of anesthetic agents to decrease the volume of the "noise." Our knowledge about evoked potentials from sensory stimulation was obtained from the study of animals deeply anesthetized.

Working on the assumption that the spontaneous cerebral electrical activity is random or quasi-random, averaging techniques have developed which significantly increase the amplitude of evoked responses while they decrease or blur the background activity sufficiently as to make it almost negligible. With these techniques and the use of immobilizing agents of the type of curare, evoked potentials can be studied in the waking animals. These studies have shown that responses obtained in this manner are quite different in latency, configuration and topographic distribution from those recorded under the effect of various anesthetic agents. Secondary, long latency or delayed potentials are seen to follow the primary potential, to last several hundreds of milliseconds, to extend far beyond the limits of primary receiving areas and to mix with responses elicited by other modalities of sensory stimulation.

In an attempt to dissect these complex responses and hoping to be able to study their different components separately we recorded evoked potentials in curarized cats with local anesthesia and observed the changes which they undergo under increasing doses of intravenous barbiturates. We also studied the effect which sections of the brain stem would have on the different characteristics of these evoked potentials (1962). Not only quantitative but definite qualitative changes are observed. Some components are enhanced while others are totally eliminated by anesthesia or by intercollicular section of the brain stem. The most resistant and constant component is the primary potential which can be recorded even under very deep anesthesia and after brain stem section.

Comparison of these results with evoked potentials elicited in man is now possible. In order to record from surface electrodes applied to the intact scalp and in spite of the constant background activity, multi-purpose digital computers are used. These instruments present in fractions of a second the algebraic sum of responses to many repeated stimuli, bringing out the constant components of the time locked evoked potential while they minimize the background activity. Responses to flashes of light can be seen to extend to all areas accessible by the scalp electrodes and as far as the anterior frontal regions (Fig. 1). In some instances, responses to either a visual or an auditory stimulus can be recorded consecutively from the same area. Responses to audio stimulation, however, do not in our experiments extend to areas as widely separated from each other as do the visually evoked potentials.

While investigation of characteristics of evoked potentials in normal human subjects offers a promising and fascinating field, interpretation of their variations in disease processes may also be profitable. The present work is concerned with the latter application.

Alterations of visually evoked potentials are clearest and most easily interpreted in the presence of processes affecting the specific visual pathways or receiving areas (i.e. hemianopsia, cortical blindness). The method is especially useful in uncooperative patients where no visual field examination can be accomplished. The wide distribution of evoked potentials suggest, however, the added possibility of detecting, by means of their changes, pathologic processes involving any cortical area even though they may not cause specific visual symptoms. Exact localization of cortical involvement by cerebrovascular insufficiency or occlusion, for instance, is frequently difficult with presently used techniques which give at best an idea of global or hemispherical involvement. Working on the assumption that areas of cortical ischemia will produce alterations of evoked potentials to visual stimulation, we have examined a series of patients with cerebrovascular insufficiency or with established strokes (mean age 65 years) and compared the results with those obtained from a group of asymptomatic

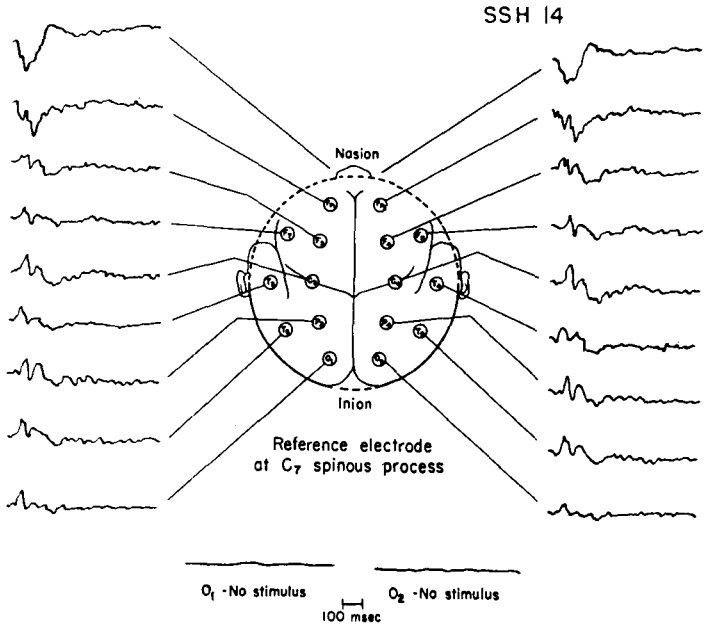


Fig. 1

Asymptomatic control. Potentials evoked by short (10 μ sec) photic stimuli given at 0.8/sec. Records from homologous areas of the two hemispheres were taken simultaneously by two-channel recording. Responses were retraced from curves of an X-Y plotter taken from a digital computer and each represents the algebraic sum of 230 responses. The uppermost tracings on each side are taken from electrodes placed suborbitally and probably represent retinal potential changes. They should be compared with tracings from Fp1 and Fp2 which probably represent a combination of cerebral and retinal response. Downward deflection represents positivity at the exploring electrode.

individuals of similar age group (mean age 60.8 years). Since there are great variations among individuals in amplitude and configuration of the responses to photic stimuli, a normal response is difficult to establish. We therefore, decided to compare the amplitude between the two peaks of opposite polarity occurring during the first two hundred milliseconds of the response and compare this measurement between homologous areas of the two hemispheres. The lower side is then expressed as a percentage of the higher side. This will give us only data about maximal depression of evoked potentials and not of absolute abnormality. Nevertheless it might be helpful since it gives a quantitative value suitable for comparison.

The results have so far shown that maximal evoked response depressions are in patients definitely below maximal depressions in controls, without any overlap. On the other hand, correlation of locus or even of hemisphere involved with clinical and electroencephalographic results is in some cases very good, but in others only partial or absent. This should not be completely discouraging since special techniques have shown that in vascular disease cerebral involvement may be much more extensive than might be suspected from clinical or even angiographic examination.

The technique of recording evoked potentials in normal and abnormal human subjects is very promising and may unveil unsuspected patterns in normal and pathologic physiology of the human brain.



Alumni Survey



THE CLASS OF 1942

Two decades have passed since graduation of the 102 members of the Class of 1942. Eighty-two replied recently to the MEDICAL BULLETIN's survey. Three others are known to be deceased. Military service occupied all but a handful after their internships, and many served with special distinction in World War II.

Today they practice throughout the nation, although 43 (51 percent) of those answering the survey remain in Minnesota. Nine practice in California, and seven are clustered at Mankato, Minn. Willmar, Minn., is the home of three who practice together.

Of those answering, 22 (26 percent) are in general practice. The others mentioned 14 specialties, led by internal medicine (13) and surgery (12). Three men are presently training as residents, after periods in private practice.

Howard A. Andersen has been at the Mayo Clinic for his entire professional career and plans to remain in Rochester "for the rest of his active life." He is an internist,



HOWARD ANDERSEN

with subspecialties in thoracic diseases and bronchoesophagology. He was appointed to the Clinic staff in 1950, after completing a fellowship in internal medicine there from 1947 to 1950. During World War II, Dr. Andersen served in the U. S. Navy, winning the Bronze Star medal when his ship was sunk during the Normandy landings. At home at 1072 Plummer Lane, Rochester, are his wife, Peggy, and Patricia, 17; Richard, 14; and Robert, 9.

Franklin C. Anderson is in general practice at the Owatonna Clinic, Owatonna, Minn., and lives at 557 Ridge Road in that city. His family includes his wife, Sophie; and his children, John, Roberta, Alan, Kristi, and Karen. Dr. Anderson is one of the founders of the Owatonna Clinic (1949) and has been in general practice since his World War II service from 1943 to 1946.

Warren R. Anderson is a pediatrician in Sioux Falls, S.D., living at 1625 So. Main Ave., with his wife, Lois, and George 15; Karen, 11; and Arnold, 9. He is also school physician for the city of Sioux Falls. Mrs. Anderson was president of the S. D. Medical Auxiliary in 1961. Warren spent three years in military service, then took a residency in pediatrics at the University of Minnesota 1946-49 before settling in Sioux Falls.

John F. Arnesen has been an internist in Owatonna, Minn., for the past 11 years. He took residencies in Salt Lake City V. A. Hospital and the Mayo Foundation 1946-51, following military service 1943-46. His family includes his wife, Elizabeth, and Peter, 15; John, 14; and Mark, 12. They live at 424 S. Grove St., Owatonna.

B. Niles Batdorf is in general practice alone in Mankato, Minn. He has practiced there since 1945, following World War II service in Europe. Niles is married to the former Berit Hegland of Drammen, Norway. Their children are Randi, 13; Julie, 11; Niles, 10; and Lisa, 6. The family home is on Route No. 2, Mankato. Dr. Batdorf is organist at the Evangelical Covenant Church. He describes his medical practice as "busy."

J. Gordon Beaton has practiced internal medicine for the past ten years in Northfield, Minn. Special fields of interest are diseases of the chest and geriatrics. Gordon spent the first decade of his professional career in internship, military service aboard a Coast Guard troop transport, residencies in internal medicine and pulmonary diseases, duty with the V. A. Hospital, Fargo, N. D., and private practice in New Ulm, Minn. He and his wife, Genevieve, live at 614 Prairie Ave., Northfield, with their children, Genevieve, 18, and Joe, 17.

Deane W. Benton is a psychiatrist in Santa Ana, Calif., where he began practicing in January, 1956. He is married to the former Barbara Sjordal of Ada, Minn., and they have five children — Linda, 18; Deborah, 16; Christopher, 11; Wendy, 8; and Paul, 6. The family home is at 1112 Nottingham Rd., Newport Beach, Calif. Dean was a resident in psychiatry at Minnesota, and was on active duty two different times with the Army, winning the Bronze Star medal and Combat Medic Badge. He likes photography and anthropology, especially studying the Hopi Indians of California, and is active in community mental health work.

Robert O. Bergan has practiced pediatrics in Duluth, Minn., for the past 16 years. He is associated with the Duluth Clinic, and lives at 2415 E. Second St., with his wife, Adelaide, and James, 14; John, 10; and Mary, 6. Bob was in military service 1943-46 in the South Pacific and Japan.

Irving C. Bernstein is in the private practice of psychiatry in Minneapolis (since 1951) and is on the clinical staff in psychiatry and obstetrics and gynecology at the Medical School. His wife, Dorothy, is a graduate of the University of Colorado Medical School, and is on the part time medical staff at the University of Minnesota Health Service. Their children are Mark, 13; Gail, 10; and Paul, 3. "My wife has a pottery studio in our home," he writes, "and last year won second prize at the Minnesota State Fair for a tea set she created." The family lives at 4006 W. River



IRVING BERNSTEIN

Rd., Minneapolis.

William Burrows is located in Puyallup, Washington, where he has been in general practice for the past 15 years. His address is Rte. 2, Box 948. His family includes his wife, Loretta, and daughter, Loretta M., 18. His four sons are George, 16; Christopher, 13; Robert, 9; and Alan, 6.

Joseph D. Carlisle lives in Bloomfield Hills, N. J., and practices plastic and reconstructive surgery. He enjoys fly-

ing, sailing, and astronomy as hobbies. His family consists of his wife, Myrtle, and Douglas, 21; Jacqueline, 11; and Bonnie Mae, 9. Their home is at 245 Barden Road. They have been in Bloomfield Hills since 1955.

Merrill D. Chesler is a plastic surgeon, practicing alone in Minneapolis. He is chief consultant in plastic surgery at the Minneapolis VA Hospital, and a clinical instructor at the Medical School. Merrill served as an army surgeon in Europe during World War II, and is married to the former Grayce Rosenthal of Trenton, N. J. Their children are Paula, 12; Larry, 9; Steven, 8; and Bradley, 4. The family is home at 2760 Ewing Ave. S., Minneapolis.



THE CHRISTOPHERSONS

Joseph E. Christopherson packed off his family (see photo) in the summer of 1961 for a "memorable" visit to Sweden, where he visited the Karolinska Institute in Stockholm and the University of Göteborg. Joe is a general surgeon with the Park Clinic, Mason City, Ia.,

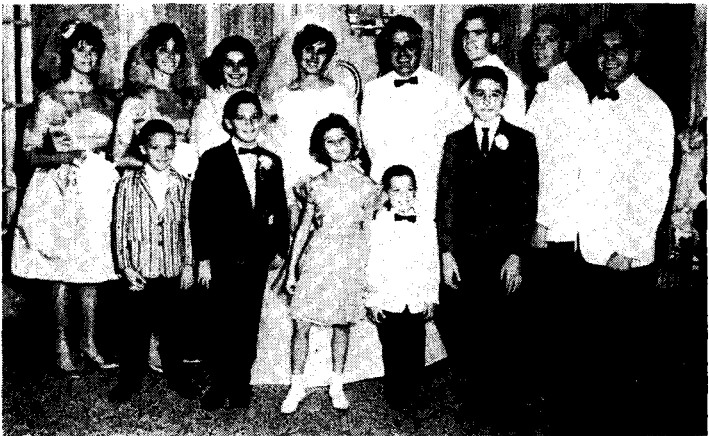
and has been county coroner, county medical examiner, and is on the School Board. He is married to Evelyn M. Simonson, a former nurse at Swedish Hospital, Minneapolis. Their children are John, 16; Claire, 13; and Jean, 9. Joe won the Silver Star and Bronze Star as a battalion surgeon with the U. S. Marines during World War II in the western Pacific.

Robert H. Conley likes Mankato, Minn., and expects to remain there in the practice of internal medicine. His "large, active family" consists of Harriette (his wife); Robert, 13; Kathleen, 12; Thomas, 11; Ann, 9; John, 7; Billy, 5; and Mary, 3. Dr. Conley teaches in the Mankato State College Nursing School program, and practices in association with two other alumni, Dr. Ben Geurs (Med. '42) and Dr. A. M. Scheidel (Med. '49). The family home is at 109 Glencrest.

Coleman J. Connolly is a thoracic surgeon. He practices and lives in St. Paul, Minn., and is a clinical assistant professor at the Medical School. Coleman has been engaged in this field of practice for 16 years. The family home is at 565 Mt. Curve Blvd., St. Paul 16. His wife is the former Mary Margaret Lane of South Bend, Ind. Their children are John, 14; Mary, 10; Joseph, 4; and Michael, 2.

Harold E. Coulter is a resident in anesthesiology at University of Minnesota Hospitals, an appointment which he began May 1, 1961. He plans private practice in anesthesiology in Minneapolis in the future. At home at 5108 Abercrombie Dr., Minneapolis 24, are his wife, Evelyn, and Harold, Jr., 15; Thomas, 13; and William, 10.

Paul C. Cress has been in general practice for 16 years in Marysville, Calif., and lives at 423 Second St. in nearby Yuba City, Calif. His wife, Val, was from Hibbing, Minn. Their 11 children are Kathleen, 22; James, 21; Jerry, 20; Carol, 18; Paul, 15; Marguria and William, 14; Joe, 10; Janet, 8; John, 7; and Tom, 5. (Ed. Note: The Cress family is the largest we know of among 4,800 alumni of the Medical School.)



THE CRESS FAMILY

Eleanor E. Duerr has practiced general medicine for about 10 years in association with her husband, Dr. John V. Farkas, in St. Paul, Minn. They live at 3369 N. Snelling

Ave., with their children, John, 15; James, 14; and Marie, 9.



HARRY EIL

Harry M. Eil, a dermatologist in the Bronx, New York, is married to the former Lois Latts, a 1946 graduate of the Medical School. She is not in private practice, but works for the New York Health Department. They live at 77 Puritan Ave., Yonkers, N. Y., with Charles, 16; Alison, 14; and Mitchell, 12. "My hobbies include keeping the home roof in repair, fighting crabgrass, and some bridge, but little time for any," he writes. Harry served aboard

a U. S. Navy destroyer during World War II.

E. F. (Fred) Englund says he "lives the simple life" with his wife, Glennis, and John, 18; Meredith, 15; Paul, 13; and Craig, 11, at their home, 6625 West Shore Dr., Minneapolis 24. Fred is an internist, practicing alone at the Southdale Medical Bldg. for the past five years.



DON FERGUSON

Donald J. Ferguson is professor of surgery at the University of Chicago Medical School, and lives on the campus at 5629 S. Blackstone. His family includes his wife, Betty, and Anne, 15; Don, Jr., 13; and Merrill, 8. Dr. Ferguson took his present post two years ago, and now divides his time among teaching, research, and operating. "My major interest at the moment is tumor resistance and tolerance to chemotherapy," he writes. He was formerly on the staff at

the University of Minnesota as chief of surgery at the Veterans Hospital.

Rene G. Fortier is another of the large group of alumni living and practicing in Mankato, Minn. He's a radiologist, and took his residency 1952-55 at Miller Hospital, St. Paul. Mrs. Fortier (Elizabeth) and Michele, 13; John, 12; and Susan, 9, are home at 120 Tile St., Mankato.

Susanne Geist is "temporarily retired from general practice while raising a family." She's married to Dr. Swift C. Black and lives in Dillon, S. C., with Swift, Jr., 13; John, 12; Susanne, 10; and Mary Anne, 4. She met her husband while they were interning at Jackson Memorial Hospital, Miami, Fla. "We wish to invite everyone down for a taste of good old Southern hospitality," she writes, adding that she's also busy as a Girl Scout leader and with numerous family activities. The family home is at 507 E. Roosevelt St., Dillon.

Ben Geurs says he's one of seven Class of '42 members who practice in the Mankato, Minn. area. He's an internist, and practices with Dr. Bob Conley, a classmate, and Dr. A. M. Scheidel (Med. '49). "Mine is a full and satisfying life with six children and a busy practice," he writes, mentioning family activities and "occasional fishing and hunting in Canada." In Mankato since 1950, Ben lives at 133 Ridgely Rd., with his wife, Jane, and Robert, 13; John, 12; Susan, 11; Mary, 9; Margaret, 5; and Jimmy, 2.

Robert R. Giebink has seven children and lives and practices in Sioux Falls, S. D. He's an orthopedic surgeon, entering the field in 1948 following a residency at Minneapolis V. A. hospital. Mrs. Giebink is the former Mary Seitz of Minneapolis. Their children range from 19 to 4 years old. The family home is at 1512 S. Hawthorne.

Jarvey Gilbert has been in general practice since 1946, and is located in Burbank, Calif. He lives at 712 Cambridge with his wife, Sally (a Tennessean) and Jean, 13; Deborah, 11; and Laura, 9. He was in military service 1953-55.



JARVEY GILBERT

Sewell S. Gordon is a radiologist, practicing in association with the St. Louis Park (Minn.) Medical Center. He also teaches at the Medical School and V. A. Hospital, and consults at other hospitals.

A radiologist since 1950, Sewell lives at 2154 Parklands Lane, Minneapolis 26, with his wife, Nancy, and Ted, 13; Sally, 11; and Tom, 9.

John C. Grant went into general practice 19 years ago in Sauk Centre, Minn., and remains today at the Sauk Centre Clinic. He is married to the former Phyllis McClay of Minneapolis. Their children are Susan, 18; Catherine, 15; and Mary, 7.

Kristofer Hagen is back in general practice in Minneapolis after completing a second tour of medical missionary practice in rural India, 1960-62. He was on similar Lutheran church service during 1946-52 at the same mission hospital. Kris is also active in Salvation Army work, and practices at Southdale Medical Bldg., Minneapolis, with Dr. Kenneth V. Hodges (Med. '54) and Dr. Duane Olson (Med. '37). The family home is at 5129 Tifton Dr., Minneapolis 24. His wife, Bertha, and he are parents of Muriel, 25; Katherine, 18; and Janet, 13.

Roger P. Hallin spent 19 years in association with the Worthington, Minn. Clinic, primarily in obstetrics and gynecology practice. On July 1, 1962, he began a year's residency training in physical medicine and rehabilitation at University of Minnesota Hospitals. His family includes his wife, Harriet, and Mary, 20; Tom, 18; John, 16; and Nancy, 12. They live at 3817 Huntingdon Dr., Hopkins, Minn.



BILL HAYFORD

Bill Hayford spent 1943-46 in the Army Medical Corps in Europe, then took a four year residency in internal medicine at Minneapolis General Hospital. He has practiced in East Lansing, Mich. for the past 14 years, where he lives at 1006 Wildwood Dr., with his wife, Helen, and Judith, 14; and Jim, 12.

Earl Hill is in private practice as an internist in Minneapolis, is on the clinical teaching staff at the Medical School, and has been chief of the medical staff at Mt. Sinai Hospital. He is "now taking piano lessons, following the example of my three children." His wife, Shirley, was a medical technologist. Their children are Carolyn, 12; Marjorie, 11; and Richard, 9. They live at 2906 Ewing Ave. S.



RICHARD C. HORNS

Richard C. Horns took his family around the world in late 1962, stopping to attend the International Congress of Ophthalmology in New Delhi, India. He's been an ophthalmologist in Minneapolis since 1945, and also teaches at the Medical School. He and his wife, Dorothy, have three sons and one daughter. They live at 4905 W. Sunnyslope Rd., Minneapolis 24.

William J. Hruza "enjoys general practice and surgery" in Madelia, Minn., a "very nice farm community of 2,000." His family, which he describes as "a riot!", consists of his wife, Margaret, and four daughters: Mary Ann, 15; Christine, 14; Manette, 12; and Kathleen, 11. Bill was a Marine Corps medical officer during World War II, and was a surgery resident for three years at Swedish (Minneapolis) Hospital before moving to Madelia in 1949.

John Hurley has been an internist for the past 12 years in Billings, Mont. He lives at 1831 Poly Dr., with his wife, Ruth, and Janet, 16; Carol, 14; June, 11; Tom, 8; and Barbara, 4.



ALLEN JANECKY

Allen G. Janecky is in general practice at the Baudette Clinic, Baudette, Minn. He is an associate of the International College of Surgeons, and enjoys boating, fishing, and hunting in the Canadian border country. His wife, Lucille, was from Thief River Falls, Minn. Their children are Joan, 17; and Paul, 14.

T. G. Johnson is deceased.

Herman Kabat taught in the Department of Physiology at Minnesota during his Medical School days, then entered the field of physical medicine and rehabilitation. He now practices in Providence, R. I., and lives at 20 Wilbur Hazard Rd., Saunderstown, R. I. He had a Ph.D. in neurology

(Northwestern U., 1935) before Medical School, and has engaged in neuromuscular research for many years. He is married and has four children.

Since 1954, **Melvin J. Kirkeeng** has lived and practiced ophthalmology in Las Vegas, Nev. He took his residency training at University of Minnesota Hospitals, and now lives at 1114 Cashman Dr., Las Vegas, with his wife, Florice, and children. They include Dewey, 19; Torina, 16; Kristine, 14; and Karla, 9.

Andrew J. Leemhuis is a neurologist in Minneapolis, and is on the clinical staff of the Medical School. He lives at 4715 Fremont Ave. S., with his wife, Margaret, and Joe, 15; John, 11; Robert, 6; and Jene, 4. He was a Major in the Army Medical Corps overseas during World War II.

Thomas H. Leitschuh is a psychiatrist at the Veterans Hospital, Wood, Wis., and teaches at Marquette University School of Medicine. He resides at the Hospital, with his wife, Mary, and Jay, 15; Jan, 8; and Thomas, 5.



WILLIS E. LEMON

Willis E. Lemon is an associate radiologist at the Erlanger (General) Hospital in Chattanooga, Tenn. He lives at 505 Barrington Rd., in nearby Signal Mountain, Tenn. His radiology training was at the Mayo Foundation, Rochester, Minn., 1947-50, where he also found a wife, Bereith. They are now parents of Carol, 12; Nancy, 10; and Richard, 4.

William Lick is in the private practice of internal medicine in St. Paul, Minn., and lives at 633 Montcalm Pl., in that city. He teaches at two St. Paul hospitals as well as the University Hospitals. Bill earned an M.S. degree in Pathology in 1948, and an M.S. in Medicine in 1950. He served in the Southwest Pacific in World War II, and is married to the former Norma Benham of St. Paul. Their children are Bruce, 11; John, 5; and Scott, 2.

Wallace W. Lueck practices alone as a pediatrician in north Minneapolis, and is on the clinical staff at the Medical School. He lives at 3414 Abbott Ave. N., with his wife, Phyllis, and Christy, 12; and Lori, 5.

J. Benjamin Lund is another of the classmembers practicing in Mankato, Minn., where he has been in psychiatry and neurology, following his residency training 1948-50 at Minneapolis V. A. Hospital. In the family home at 407 James Ave., Mankato, are his wife, Florence, and six children ranging from 12 to 19 years old.

Carl L. Lundell has spent 16 years in general practice at the Granite Medical Center, Granite Falls, Minn. He is married to the former Doris Schempf of that city, and his four children. The oldest, Barbara, 21, is married to Paul Benson, an outstanding varsity football player for the past two years at the University of Minnesota.

Virgil J. P. Lundquist is a leading figure in University of Minnesota alumni affairs, having served as president of both the parent Minnesota Alumni Association, and the Minnesota Medical Alumni Association. He is now general chairman of the campaign to build the Medical Student Center at the University. "Slug" is a surgeon, practicing in association with Dr. James G. Anderson in Minneapolis. He lives at 4805 Sunnyside Rd., Minneapolis 24, with his wife, Irma, and Kip, 14; Karna, 12; and Kada, 10. Another daughter, Karen, 22, is married.

Warren L. Macaulay is a dermatologist at the Fargo Clinic, Fargo, N. D. He is married to the former Dorothy McVeety of Bemidji, Minn. Their children are John, 19; Thomas, 16; Jean, 13; and Michael, 11. The family is at home at 1410 9th St. S., Fargo. Warren served in the Navy 1943-46, mostly in the South Pacific.

Austin M. McCarthy and two of his '42 classmates are associated with a seven-physician group at the Willmar Clinic, Willmar, Minn. Austin took his surgery training at Minneapolis General Hospital, and has been in Willmar 14 years. His wife, Muriel Simsted, is a graduate from the University in Medical Technology (1942). They have five daughters — Mary, 15; Pat, 13; Julie, 11; Maggie, 6; and Jane, 5. The family home is at 909 Walnut Place.

Joseph P. McEvoy says he likes golfing and fishing but is "good at neither." He lives at 1419 E. Ward St., Seattle 2,

Wash., where he practices ophthalmology at a Group Health Clinic. He and his wife, Norma, have a son, Joseph, Jr., 13.

Charles F. Medlin has been in general practice for the past 11 years in Vista, Calif., and lives at 1800 Alta Vista, in that community. He served in Europe during World War II, and is married to the former Harriet Bush of Granite Falls, Minn. Their children are Charles, 13; and Patricia, 11.

William F. Menold is part of a three-man obstetrics-gynecology group practicing in St. Paul, Minn., since 1946. His wife, Jean, is a former nurse. They live at 1665 Hillcrest Ave., with William F., Jr., 18; Margaret, 14; and Ann, 12.

Roger P. Michels is the second of three classmembers practicing at the Willmar Clinic, Willmar, Minn. Roger's practice is general medicine, with special interest in obstetrics-gynecology. At Willmar for 16 years, he is married to Patricia Welsh of St. Paul, who he describes as "beautiful, sociable, and a good mother." The family is musically minded, and occasionally packs up for vacation trips in a converted school bus. Answering to roll call are Tim, 13; Sheila, 12; twins Pamela and Debora, 9; and Tom, 6.

Robert Hugh Monahan is a clinical professor of ophthalmology at the Medical School, and practices in St. Paul, Minn. He took his residency 1948-50 at the University Hospitals and followed with a year as a teaching fellow in pathology at Harvard. Hugh's wife is named Marian. Their children are Robert Hugh, III, 20; and David, 18. Hugh is active in the Minnesota Medical Alumni Association. The family home is at 2158 Commonwealth.

Jack R. Morrison likes mountain climbing, an appropriate hobby for a resident of Seattle, Wash., where he has practiced general medicine alone for the past 16 years. His family often shares its leisure time activities, from home base at 4419 So. 144th, Seattle 88. Jack and his wife, Orva, are parents of Jack, 18; Mary, 17; Deva, 14; Ken, 12; and Catherine, 10.



ROBERT MUSSEY

Robert D. Mussey has practiced orthopedic surgery since January, 1949 at the Carle Hospital Clinic, Urbana, Ill. Bob is active in Rotary Club, and likes numismatics. He was with the Marines during World War II, and now lives at 105 Meadows, Urbana. He and his wife, Jean, have three daughters and two sons.

Beatrice Kelber is married to Mr. Irving Nachtigal of New York City, and is the mother of Suzanne, 19; Maxine, 16; and Daniel, 14. She is a psychiatrist, practicing part time only, "so we have evenings and weekends with the family." She writes that they enjoy New York for its cultural opportunities, and that they spend summers at the seashore. The family home is at 147-15 70th Ave., Flushing 67, N. Y.

Carl G. Nelson is a urologist, practicing in Great Falls, Mont. since 1953, where he lives with his wife, Delphine, and Stephen, 15; Jane, 13; Neil, 10; and Thomas, 8. Their home is at 3642 Fifth Ave. S.

Lauren B. Nessel is in general practice with a group at the Bloomington-Lake Clinic, Minneapolis, Minn. "I have a good practice, enjoy my work, have a wonderful family, and am very happy," he writes. In the family home at 5100 18th Ave. S. are his wife, Irene, and Mark, 19; Mary, 17; Ruth, 15; and Martha, 11.



BURTON G. OLSON

Burton G. Olson is an ophthalmologist and owner of the McCannel Clinic, Minnot, N. D. He's been there 10 years, and lives at 629 Third St. S. E., with his wife, Eileen, and James, 13; William, 10; and Jean, 8. He was elected a Fellow of the American College of Surgeons in 1959.

Lester J. Olson is head of a general practice group operating the Spooner Clinic, Spooner, Wis. His personal practice emphasizes surgery and obstetrics-gynecology. His family — wife Jeannette; and John, 19; Susan, 15; and Gregory, 8 — visited Mexico,

Quebec, and Europe in 1961. Les has been in Spooner for 16 years.

Robert B. Patterson writes: "The Western life is invigorating and rewarding." He's in general practice in Loveland, Colorado with special interest in industrial medicine. Hobbies include skiing, sailing, and riding, with his wife, Martha, and Ann, 19; Becky, 17; and David, 14. They live at 644 W. Sixth St., Loveland.



GORDON S. PAULSON

Gordon S. Paulson is an internist in Rapid City, S. D., and plays clarinet with the Rapid City Symphony Orchestra. He lives at 1815 West Blvd., with his wife, Jane, and David, 14; Virginia, 10; and Mark, 6, and is a consultant to three government hospitals in the area.

John R. Perkins practices pediatrics in Middletown, O.; enjoys politics; says he's the "only admitted Democrat on a hospital staff of 80 physicians!" He describes his practice as "very satisfactory," and intends to remain in Middletown, where he lives at 3103 Milton Rd. His wife, Margaret, is from Ohio. They have 18-year-old twin daughters, and a son, John, 5.



CARL A. PETERSON

Carl A. Peterson is chief of pathology and director of laboratories at El Camino Hospital, Mountain View, Calif., a post to which he was named when the 320-bed hospital was opened in 1960. "The hospital has won national awards for design and equipment," he writes, "and the laboratories are equipped with the most advanced instrumentation." He says his family thoroughly enjoys life in the San Francisco peninsula area. His wife, Bernice, is a University of Minnesota graduate. They have three daughters, and live at 12400 Casa Mia Way, Los Altos, Calif.

They have three daughters, and live at 12400 Casa Mia Way, Los Altos, Calif.

Willard E. Peterson's special medical interest is tuberculosis prevention. He has practiced as an internist for 16 years at the Willmar Clinic, Willmar, Minn. He and his

wife, Irma, are parents of Todd, 21; Marcia, 18; Willis, 16; and Joel, 12. They live at 314 E. Trott Ave., Willmar.

Joseph L. Posch is a surgeon in Detroit, Mich., and lives at 73 Weber Pl., Grosse Pointe Shores 36, Mich. "I've developed an interest in surgery of the hand and am kept busy almost full time with it," he writes. He's on the clinic staff at Wayne State College of Medicine. His wife's name is Martha. Their children are Mary, 19; and Joe, Jr., 17.

John H. Remington's special field of practice is surgery of the colon, and he teaches at the University of Rochester School of Medicine, Rochester, N. Y., his location for the past 16 years. He lives at 11 Old Mill Rd., Rochester 18, with his wife, Katherine, and John, 20; William, 19; and Susan, 16.



FRANCIS ROACH

Francis X. Roach, Jr., has been a urologist for the past 16 years in Stockton, Calif. He practices in association with Dr. Robert N. Evert (Med. '44), and lives at 670 W. Euclid, Stockton 4. He is married to the former Geraldine Jeffry of Stockton. They have a daughter, Jane, 5.

Raymond A. Rossberg practices general medicine in Morris, Minn., at the new Morris Medical Center, and "plans to stay here." He's been a member of the School Board for 14 of his 16 years in

Morris. His wife, Cecilia, and he are parents of Raymond, Jr., 25; and Stephan, 15.



C. J. ROWE

Clarence J. Rowe is in the practice of psychiatry in St. Paul, Minn., and is a consultant for 3-M Company and the St. Paul Municipal Court. "Gus" is on the clinical teaching staff at the Medical School, and lectures at St. Catherine's College, St. Paul. Mrs. Rowe is the former Patricia McNulty of Belmond, Ia. They are parents of Padric, 9; Rory, 8; and Kelly Michael, 2.

Robert A. Schneider joined the University of Oklahoma School of Medicine

faculty ten years ago, and is now an associate professor of medicine and psychiatry. "There are many Minnesotans on the faculty," he writes, adding that his research is in the field of clinical neurophysiology. An Army flight surgeon during World War II, he's now married to Jennifer Ann Olson of Minneapolis. Their youngsters include Linda, 6; Patricia, 5; Mary, 4; Teresa, 1½ and Charles, nine months. The family is home at 4400 Thompson Ave., Oklahoma City 5.

J. W. Schultz is deceased.



SAMUEL SCHWARTZ

Samuel Schwartz is a research professor in the Department of Medicine, University of Minnesota Medical School, a post financed by U.S.P.H.S. through a Research Career Award. His current research emphasizes the relationships of porphyrins to cancer, radiobiology, and other physiological processes. The Schwartz family counts nine children, including three married daughters. They range in age from 24 years to 1 year. Sam, who also claims a grandson, lives

with his wife, Goldie, and family, at 2048 Utah Ave. S., Minneapolis.

Margaret L. Stevenson practices obstetrics and gynecology alone in Alhambra, Calif., where she has been since 1947. She lives at 917 Novelda Rd., likes fishing, music, and raises miniature trees.

Everett L. Strandell has been in general practice at the Brewton Medical Center, Brewton, Ala., for the past 16 years. He is vice president of the Alabama State Medical Association, and likes deep sea fishing in the Gulf of Mexico. He and his wife, Mary, live at 403 Wilson St., Brewton.

William P. Thearle is in general practice in West Covina, Calif., a suburb of Los Angeles, and lives at 2149 E. Thacker. He's been there seven years, and is married to the former Jacqueline Tuttle of Pittsburgh, Pa. Their children are Diane, 28; and Kelly, 4.



A. BOYD THOMES

A. Boyd Thomes practices with a group of six internists in Minneapolis, and teaches under the Medical School's program at Minneapolis General Hospital. He is married to the former Mavis McQuarrie of Minneapolis. They live at 40 Barton Ave. S.E., with their children, Steven, 19; Eugenie, 15; Charles, 14; and Katherine, 10.

Hugh J. Thompson has been on the staff of the University of Minnesota Students Health Service since 1947, a general practice which he enjoys because of the "range of diseases, intelligence of patients, and attractive hours." His practice emphasizes the allergies. Hugh took an 18-month general surgery residency at San Bernardino County Hospital, Calif., in 1943-45, then spent 26 months in the Army Medical Corps. He and his wife, Elizabeth, like canoe trips in northern Minnesota, and in 1958 spent the summer in England, exchanging jobs and homes with a British physician at Leeds University Health Service. The Thompsons live at 3355 Wyoming Ave., Minneapolis 26. They have no children.



ROBERT TINKHAM

Robert G. Tinkham says he "reversed the usual course of events of the medical curriculum." He enjoyed 14 years of general practice in Minneapolis, then began a three-year residency in physical medicine and rehabilitation at the Mayo Clinic on Oct. 1, 1961. "It's proved to be quite a challenge and a stimulating experience for the entire family." Mrs. Tinkham is Nancy Christensen of Minneapolis. Their children are Elizabeth, 16; and John, 11. They live at 1330 N.

W. Second St., Rochester, Minn.

Capt. Dale B. Watkins is chief of dermatology at the U. S. Naval Hospital, Key West, Fla., a post he has held for the past four years. In the Navy since World War II, he is married to Celia Cross of Oakland, Calif. They have

three children. His hobbies are tropical gardening, skin-diving, and deep sea fishing. Their family home is at 3435 Riviera Dr., Key West.

George Werner is a general surgeon practicing in Minneapolis alone for the past seven years. He's a clinical instructor at the Medical School, and took his surgery residency at Minneapolis V. A. Hospital. He lives with his wife, Lillian, and Richard, 13; and Robert, 9, at 3736 Zenith Ave. S., Minneapolis.

Joseph L. Whelan enjoys his practice of neurology and electroencephalography in Detroit, Mich., but "escapes with the family for a few days each month the year around to our cabin 250 miles north." He lives at 1360 Oxford Rd., Grosse Pointe 36, with his wife, Gloria, and Joe, 13; and Jennifer, 11. On the clinical staff at Wayne State University, Joe has been in Detroit for 13 years, and is senior partner in a two-man practice.

Francis M. Whittaker is an obstetrician-gynecologist, practicing for the past 14 years with a group in San Jose, Calif. He teaches at San Jose State College and Santa Clara County Hospital, and lives at 15761 E. Alta Vista Way. He and his wife, Mary, have four sons: Bill, 13; Jim, 12; Tom, 10; and John, 8.

The following were also members of the Class of 1942, but did not respond to the Survey:

*Martin J. Bechtel
Edmund P. Eichhorn, Jr.
Alfred W. Eklund
Margaret Mary Galligan
Alfred C. Godward
Albert J. Greenberg
Roger F. Hartwich
Laurine D. Jack
Dan Levenson*

*Richard E. Lewis
Frank D. Mann
John B. McAdams
Thomas J. Mitchell
Donald R. Navratil
Otto C. Phares
H. D. Rosenblatt
Donald J. Van Gordon*



Student News

ALPHA OMEGA ALPHA ELECTS 23 MEMBERS

The University of Minnesota Chapter of Alpha Omega Alpha, honorary medical fraternity, initiated 23 new members in ceremonies held February 7, 1963.

James House, senior medical student and chapter president, presided over ceremonies which included the annual AOA lecture, delivered this year by Dr. William B. Bean, chairman of the Department of Medicine, State University of Iowa. His topic was "Books and the Physician."

The evening program included a dinner and talk on the "History of the Purple," by Dr. C. J. Watson, professor and head of the Department of Medicine, University of Minnesota.

Seniors elected to AOA on the basis of scholarship and high ideals of character and performance included:

<i>Marvin E. Ament</i>	<i>Anton S. Nesse</i>
<i>Terrence D. Capistrant</i>	<i>Ned B. Nichols</i>
<i>Peter C. Christenson</i>	<i>Richard T. Olson</i>
<i>James P. Dunn</i>	<i>John H. Sargent</i>
<i>Dennis C. Frisbie</i>	<i>Leif I. Solberg</i>
<i>Bruce L. Jensen</i>	<i>Daniel J. Ullyot</i>
<i>H. David Knudsen</i>	<i>Harold J. Ver Steeg</i>
<i>Lloyd L. Leider</i>	<i>John W. Wheeler</i>
<i>Leonard I. Mastbaum</i>	

Juniors elected to lead AOA in 1963-64 were:

<i>R. Michael Blaese</i>	<i>Donald W. Oines</i>
<i>Dennis M. Leahy</i>	<i>Thomas J. Rose</i>
<i>Donald S. Masler</i>	

Dr. Arnold Lindall, Jr., (Med. '62) was also elected, and Dr. William Fleeson, associate professor of psychiatry and assistant Dean of the Medical School, was elected as a faculty member. Dr. Albert Sullivan, associate professor of surgery, was named AOA counselor for 1963.

Other current AOA officials are students Dennis Jacobsen, vice president; Charles Decker, treasurer; and H. Thomas Hobday, secretary. Dr. A. Sigrid Gilbertsen is faculty advisor.

Medical Foundation News

The Minnesota Medical Foundation has completed payment of a \$25,000 pledge made in 1958 to aid construction of the Diehl Hall Biomedical Library and Research Laboratories at the University of Minnesota.

Dr. Corrin H. Hodgson, president, told the Board of Trustees at its Jan. 30 meeting that more than 2,000 individual unrestricted contributions provided by alumni and friends were pooled to fulfill the Foundation's contribution over the past five years. The final payment of \$5,000.00 was made in December, 1962.

EMERGENCY LOANS

He also announced that the Minnesota State Medical Association has added \$2,000.00 to the Herman M. Johnson Memorial Emergency Loan Fund, which offers short term, interest-free loans to medical students. Administered by the Minnesota Medical Foundation, the fund now totals \$6,000. Since its establishment in November, 1959, the Foundation has made loans of more than \$41,000.00 to more than 300 student borrowers. Maximum limitations on the loans are \$200.00 for 90-day periods. There has been no loss to delinquent accounts.

SCHOLARSHIPS AND GRANTS

Applications from students are now being accepted for the 1963-64 Scholarship Awards program of the Minnesota Medical Foundation. Competition will be based on scholastic achievement and financial need. Awards will be conferred in September, 1963, at the outset of the regular academic year.

Students and faculty are both eligible to compete for research grants offered by the Foundation in the fields of heart disease and cancer. The current application period closes February 28, 1963. Maximum grants to faculty are \$2,000. Maximum stipends to students are \$1,200.

STATEMENT OF CONDITION*

As of September 30, 1962

ASSETS

Current Funds	1962	1961
Cash on Hand	\$ 5.00	\$ 5.00
Cash in Bank — Checking	23,876.60	16,355.44
Cash in Bank — Savings	31,039.60	11,011.19
Minnesota Medical Foundation		
Executive Office Account		
with University of Minnesota	557.95	705.89
Note Receivable	195.49	187.97
Investments		
General Agency Account	47,696.16	30,448.23
Medical Research Fund	195,492.28	197,146.06
	\$298,863.08	\$255,859.78
Endowment Funds		
Cash in Bank — Checking	\$ 4,880.86	\$ 4,880.86
Investment		
General Agency Account	40,000.00	40,000.00
	\$ 44,880.86	\$ 44,880.86
TOTAL ASSETS	\$343,743.94	\$300,740.64

MINNESOTA MEDICAL FOUNDATION — 1962

The Minnesota Medical Foundation experienced a 14 per cent growth in assets during 1962, and thereby increased its ability to provide private support for the University of Minnesota Medical School. As shown in the condensed audit above, the Foundation's assets rose to \$343,743.94, compared to \$300,740.64 reported a year earlier.

Income from all sources and for all purposes during fiscal 1962 was \$160,301.40, of which \$121,725.00 was for various restricted-use purposes.

The growing expressions of confidence from alumni, other physicians, and other friends in 1962 enabled the Foundation to:

THE MEDICAL BULLETIN

STATEMENT OF CONDITION*

As of September 30, 1962

FUND BALANCES

Current Funds	1962	1961
Unrestricted Funds	\$ 9,815.92	\$ 381.74
Restricted Funds	289,047.16	255,478.04
	<u>\$298,863.08</u>	<u>\$255,859.78</u>
Endowment Funds		
Unrestricted Funds Serving as		
Endowment	\$ 40,556.86	\$ 40,556.86
Scholarship Funds	4,324.00	4,324.00
	<u>\$ 44,880.86</u>	<u>\$ 44,880.86</u>
TOTAL FUNDS	\$343,743.94	\$300,740.64

* Audit by Theodore Stark & Co., Certified Public Accountants, Minneapolis, Minn.

• Award a new \$1,000.00 Distinguished Teaching Prize to a member of the Medical School faculty, based on excellence in teaching.

• Distribute a record \$30,250.00 in scholarship aid to 57 medical students. The Foundation now provides one scholarship for every ten students presently enrolled in the Medical School.

• Launch a permanent medical research program in the fields of cancer and heart disease, by awarding \$7,750.00 in "local" grants to three faculty members and four medical students.

• Loan \$16,687.00 without interest to medical students from the \$4,000.00 Herman M. Johnson Memorial Emergency Loan

— continued on next page

Fund. Total funds loaned since the fund was established on November 1, 1959, now exceeds \$41,000.00, without loss to delinquent accounts.

• *Prepare, publish, and circulate monthly issues of the University of Minnesota MEDICAL BULLETIN, in cooperation with the University of Minnesota Hospitals, and provide \$3,500.00 to aid costs of publication.*

• *Contribute \$5,000.00 to aid construction costs of Diehl Hall, the University's biomedical library.*

— EIVIND HOFF, JR.
Executive Director

ALUMNI DEATHS

▲ 1932

Dr. Russell O. Spittler, Lodi, Calif. Died Nov. 11, 1962, at the age of 54. He formerly practiced in New Richland, Minn., and Livingston, Mont., and was a native of Waseca, Minn.

▲ 1951

Dr. H. P. O'Neill, Albany, Oregon. Died January 12, 1963 in an auto accident near his home. Dr. O'Neill was 43 years old, and is survived by his wife and four children, as well as relatives in Minnesota. During World War II, he was a bomber pilot, and was shot down, spending three years in Germany as a prisoner of war.

Memorial Gifts

Memorial gifts to the Minnesota Medical Foundation have been received recently in memory of:*

Mr. Norman Jabbour
Caruthesville, Mo.

Dr. John L. Noble
St. Paul, Minn.

Dr. H. P. O'Neill
Albany, Ore.

Mr. Karl Winborn
Williamsburg, Ia.

Mrs. Sue Yessne
St. Paul, Minn.

Memorial contributions are a practical means of honoring the memory of a friend or loved one, while helping the Minnesota Medical Foundation in the advancement of medical education and research.

Coming Events

University of Minnesota Medical School

CONTINUATION COURSES FOR PHYSICIANS

1963

University of Minnesota
Center for Continuation Study

- February 4-8Internal Medicine
February 11-15Neurology
March 1-2Neurosurgery
March 22-23Trauma
April 18-20Otolaryngology
April 25-27Obstetrics
April 29-May 1Ophthalmology
May 16-18Surgery
May 27-29Psychiatry
June 3-5Anesthesiology

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 14, MINNESOTA

Second Class Postage Paid
at Minneapolis, Minnesota

*For Memorial Gifts,
choose your
Minnesota Medical Foundation*

Your memorial gift to the Minnesota Medical Foundation expresses dignified respect to the memory of a relative, friend, colleague, former teacher, or fellow alumnus. It also provides thoughtful aid to the medical education and research at the University of Minnesota Medical School.

Memorial gifts are acknowledged promptly to donor and family of the deceased. Group donations also accommodated.

When you choose a memorial gift, your contribution, with appropriate details, may be sent to:

MINNESOTA MEDICAL FOUNDATION
Box 193 — University Hospitals
Minneapolis 14, Minnesota