TWO NEW MEMBERS APPOINTED TO BARNES BOARD OF TRUSTEES

WALLACE R. PERSONS

Raymond E. Rowland, Sr., President of Ralston Purina Co. and Wallace R. Persons, President and Chief Executive officer of Emerson Electric Manufacturing Co., have been appointed to the Board of Trustees of Barnes Hospital by the Rev. Eugene M. Frank, Bishop of the Methodist Church for the Missouri area.

A petition to increase the number of

RAYMOND E. ROWLAND, SR.

Barnes Hospital trustees from seven to nine was granted Thursday (January 11) by Circuit Judge Michael J. Scott. In the petition the hospital pointed out that the appointment of additional trustees will enable a wider distribution of the burden of responsibilities placed on trustees.

Other members of the Board of Trustees

(Continued on Page 8)
The hospital’s major effort during 1961 was to maintain the high quality of medical care upon which this medical center has built its reputation. This was a challenge in view of the constant increase in patients and operating expenses and a decreasing availability of trained hospital personnel. The devoted service of the professional staff and the employees helped make it possible to maintain the quantity and quality of patient service. The Trustees join with me in expressing appreciation for their loyalty and service.

The magnitude of community service performed is shown by the fact that over 650,000 patients have been admitted since Barnes Hospital opened in December, 1914. In 1961 community service was extensive, although funds were limited. There was an increase in patient days over the previous year, the hospital caring for 27,976 patients for a total of 277,453 days. There were 63,128 days of ward care where full cost is never paid by the patient and must be met in part by contributions to the hospital. Free care alone was in excess of $2,000,000, and the cost of medical and surgical care donated to ward patients by staff physicians who are faculty members of the Washington University School of Medicine, is estimated at an equal amount.

Of major concern is the increasing cost of hospital operation. The largest item of cost has been the payroll for approximately 2,500 employees, and the expense of keeping the equipment in condition to meet rapid advances in scientific medicine and interior alterations to provide better diagnostic and treatment facilities. There are two very important items which contribute to increased cost. One is the education of interns, residents, student nurses, nurse anesthetists, dietitians, and other personnel so necessary for hospital operation; the other -- clinical research in which Washington University School of Medicine shares. Both require a large number of indigent patients, special equipment, and additional medical and nursing personnel.

To illustrate how just one of the many phases of our operation affect the magnitude and cost of hospital operation, let us consider the School of Nursing. The hospital operates what is in essence a junior college for approximately 250 young women with an operating budget of about $400,000. This is an operation of considerable magnitude in itself. Graduates of the three-year program receive an R.N. diploma and become licensed registered nurses.

To counteract the mistaken impression which still persists that hospitals exploit students is the fact that the cost to Barnes Hospital for each student nurse per year is about $800 after giving credit at the hourly wage of a registered nurse for each hour the student spends with the patient. This is a very considerable contribution to the community and to the nation, for of the 7,000 hospitals in the United States, only 1,000 operate schools of nursing.

The day is long since gone when, if ever, each student paid for her education by service to patients. We wish that the educational system would take over the education of the nurse but inasmuch as the school system does not have the funds, the personnel, the ability, or the inclination in many instances to carry on nursing education, there is no alternative but for the hospitals to do so. With the present national shortage of 23,900 graduate nurses, we need more hospital schools of nursing. The present need for nurses is so great that we cannot wait for the educational system to take over. To do so would lower the quantity and quality of nurses in our hospitals.

The Trustees of Barnes Hospital have operated the out-patient department since 1945, first as fiscal agents for the Washington University Clinics Board of Managers, and since July, 1961 under contract between Washington University and the Trustees. The building was provided by the generosity of the late
David P. Wohl and the Washington University School of Medicine. It was opened for operation in May, 1961. The building was dedicated on June 5th and Senator Lister Hill presented the dedication address.

Emergency service was improved when the new clinic building opened. The organization and arrangement of the emergency service has been a part of careful planning, to meet the evolution of the accident or emergency room into a community emergency center. Originally the emergency service confined itself almost exclusively to the care of accident patients. During the last ten years, an increasing variety of diseases covering every area of clinical medicine has come about, and a drastically growing number of patients come to the hospital emergency department, making what used to be called an accident room an emergency department in a real sense.

In May, the hospital emergency service was consolidated with clinic emergency which provided intern, resident, and nursing service around the clock in up-to-date examining rooms with surgical lights, oxygen, suction, and vacuum outlets. Quarters for the intern staff in emergency are located right in the area. The x-ray service adjacent to the emergency suite saves time for patients and staff. The time and effort formerly spent moving patients to and from Mallinckrodt Institute of Radiology building is saved. The physician sees the wet x-ray film a short time after the x-ray is taken and he can begin treatment sooner. Further, this x-ray service for out-patients and emergency patients relieves the load on the in-patient x-ray facilities in Mallinckrodt Institute, giving better hospital patient service. The new ambulance entrance is easy to find, readily accessible from the street, provides ample parking for ambulances, is a good entrance and exit for admission and discharge of ambulance and wheelchair patients, and is more accessible to all parts of the hospital group.

The major part of the eye clinic in McMillan Hospital was converted into an attractive and efficient patient area through donations and other funds made available to Washington University. As funds become available, it is planned to complete the eye clinic renovation.

(Continued on Page 7)

MR. PANHORST ELECTED DEPUTY DIRECTOR OF THE BARNES HOSPITALS GROUP

Mr. Harry Panhorst, up to now Associate Director of the Barnes Hospitals Group, with administrative responsibility for the Washington University Clinics, has been elected Deputy Director of the Hospitals Group by the Barnes Hospital Board of Trustees. He also is an Associate Professor in charge of the course in Hospital Administration of Washington University.

In his new capacities, he will become first assistant to Dr. Frank R. Bradley, Executive Director of Barnes and Allied Hospitals, and Secretary of the Board of Trustees.

Mr. Panhorst, who lives at 9563 Plainfield Drive, Rock Hill, Missouri, is a former president of the Missouri State Hospital Association. He holds an A.B. degree in Social Science from Central College at Fayette, a B.S. degree in Education from the University of Missouri, and a Masters degree in Hospital Administration from Washington University.

He first joined the staff of the Hospitals Group in 1946, was appointed Assistant Director in 1948, and Associate Director of the Washington University Clinics in 1949. He is a member of the Board of Regents of the American College of Hospital Administrators.
On January 10th a giant explosion touched off a five-alarm, million dollar plus fire in the grain-mill compound of the Ralston Purina Company of St. Louis. In the resulting damage, it was reported that 2 persons lost their lives, many were injured and hospital treatment was necessary for more than 40 people. Of the more serious cases taken originally to City Hospital, 29 were transferred to our Barnes Hospitals Group the next day in three ambulances making repeated trips.

Despite the fact that the patient census of our medical center already was high, primarily due to the many cases of upper respiratory infections prevalent at this season of the year, all of our departments and personnel concerned had been alerted well in advance of the patient's arrival and were standing by to receive them. From the parking attendants who were readied to meet the ambulances, Dispatch personnel who helped in quickly getting the patients into the corridor of closeby Renard Hospital for screening by waiting Barnes doctors assisted by nurses, to routing them directly either to the readied operating room or patient floor in Maternity Hospital which had been cleared and made ready to receive them, Barnes personnel coordinated their efforts in an effective manner. The patients are now on the road to recovery. Most of the cases are registered as plastic surgery patients of Dr. J. B. Brown.

The proof of the pudding! How we meet our responsibilities under stress and emergency! The patient is King, the reason for our jobs!
SWEDISH MEDICAL AUTHORITY ON VASCULAR DISEASES LECTURES AT BARNES

Dr. Ake Lindbom, Professor of Radiology, Department of Diagnostic Radiology, Karolinska Institute, Stockholm, Sweden, is shown above while delivering a lecture in the Wohl Auditorium, on December 12th. His lecture on “Venography of the Inferior Vena Cava” was well attended by staff physicians, particularly of the departments of Radiology, Pathology, and Surgery of the Medical Center.

MORE EMPLOYEES “EARN WHILE THEY LEARN” AT BARNES

Many people “earn while they learn” in the Barnes Hospitals Group! A recent example of this is the above group of 7 people who have just completed a 4 month training course requisite to becoming Food Service Hostesses with us.

They had been carefully considered and screened prior to being selected for this training which consisted of some classroom instruction under the coordination of Mrs. Ottalia Cassidy, Dietitian Assistant, as well as on-the-job training. Now that their training is completed, they will serve as special assistants to the Dietitians of the Barnes Group in supervising patient food tray service, doing dietary clerical work and related functions.

The above picture was taken just after the graduation exercises for this group of ladies. They were presented Barnes Hospitals Food Service Hostess pins by Mrs. Doris Cook, Director of the Dietary Department and Mrs. Cassidy. Immediately following was a tea held in their honor.

*They are, left to right:* Mrs. Eva Allen, Miss Hannelore Fridrich, Mrs. Jane Hamil, Mrs. Lucy Hoehn, Mrs. Jewel Smith, Miss Margaret Langston, and Mrs. Ottalia Cassidy, Instructress.
More Qualified Nurse Anesthetists Turned Out by Barnes School

Eighteen months ago eight graduate nurses entered the Barnes Hospital School for Nurse Anesthetists. On December 15th these eight finished their advanced training and are now qualified anesthetists!

Graduation exercises were held in the Wohl Dining Room for these graduates who received their diplomas and pins from Dr. Frank R. Bradley, Director, Barnes and Allied Hospitals. Following was a tea held for the graduates, their families and friends. In the picture above are:

Left to right, seated: Evelyn Foreman, Corrine McIlquham, Eleanor McDonald, Cheryl Glenn, and Lola Perkins.

Left to right, standing: Miss Helen Vos, Educational Director, Barnes School of Nurse Anesthesia, Delores Ellsworth, Anne Wallace Kelly, Dorothy Greer, and Mrs. Dean Hayden, Director, School of Nurse Anesthesia.

Annual Report (Cont'd. from Page 3)

Renovation of patient facilities continued within the hospital. The three-year operating room renovation program in Barnes Hospital proper, financed by a grant of $70,000 by Mr. and Mrs. Spencer T. Olin in tribute to Dr. Glover H. Copher was completed. This project added three modern operating rooms and two new storage areas.

The McMillan Hospital operating suite is being renovated through a grant of $76,000 from Mr. Edgar M. Queeny. This construction will be completed in 1962. To match Mr. Queeny’s gift, the Trustees of Barnes Hospital allocated from its unrestricted funds an equal sum to be spent in renovating the interior of McMillan Hospital for patient care, and the University will augment this with a gift.

Construction has begun for the conversion of the second floor of the Rand Johnson building from a general surgical nursing division into a complete chest service nursing division which will house all chest patients—private, semi-private, and ward; male and female—and will include a five-bed sub-recovery or intensive care unit for post-operative patients. A similar arrangement for neurosurgical patients was begun by using third floor Wohl and Barnard nursing (Continued on Page 10)
MRS. G.W. SPEARL BEQUESTS
$320,000 TO HOSPITALS

Equal bequests of $160,000 from the estate of the late Mrs. Helen Lesley Spearl have been made to Barnes Hospital and to St. Luke's Hospital, it was announced recently.

Mrs. Spearl, who died August 12, 1960, directed in her will that the residue of her estate, after providing for specified gifts to other organizations and individuals, should be divided between the two hospitals. Mrs. Spearl was the widow of George W. Spearl, who headed the architectural firm of Jamieson, Spearl, Grolock & Hammond at the time of his death in 1948. He designed McMillan and Wohl hospitals in the Barnes group of hospitals.

TWO NEW TRUSTEES - (Cont'd, from Page 1)


Mr. Rowland, who lives at 22 Algonquin Lane, Webster Groves, is a trustee of Lindenwood College, the David Rankin, Jr. School, Webster Hills Methodist Church, Methodist Children’s Home of Missouri, St. Paul’s School of Theology and the Wisconsin Alumni Research Fund. He is a director and treasurer of the Chamber of Commerce of Metropolitan St. Louis, director of Safety Council of Greater St. Louis; the St. Louis Area Council, Boy Scouts of America, Mercantile Trust Co., St. Louis Capital, Inc., Wabash Railroad, Husmann Refrigerator Co., New Jersey-Indiana-Illinois Railroad and the National Association of Manufacturers. He is also a member of the Chicago Board of Trade and the University of Wisconsin Foundation.

Mr. Persons, who lives at 10 Upper Ladue Road, St. Louis, earned his Masters Degree in Engineering from Cast Institute of Technology in 1932. After 20 years in the electrical industry - general sales manager, vice president in charge of sales, and director, Lincoln Electric Company in Cleveland - he came to St. Louis in January of 1954 to join The Emerson Electrical Manufacturing Company.

He is director of the National Electrical Manufacturers Association, First National Bank of St. Louis, Plymouth Oil Company, National Council of American Ordnance Association, Ranco Motors, Ltd. Scotland, and Ranco Italiano, Milan. He is also a director of Boy Scouts of America, United Fund, St. Louis Symphony Society, and Municipal Theatre Association.

Mr. Persons is also a trustee of the David Rankin, Jr. School in St. Louis and St. Louis Governmental Research Institute. He is Chairman of the Executive Committee of the Board of Directors of Emerson-Pryne Company and Day-Brite Lighting Company, and Chairman of the Board of Emerson-Rittenhouse Company, all subsidiaries of Emerson Electric.

He holds membership in the St. Louis Racquet Club; Gulf Stream Golf Club, Delray, Florida; Mayfield Country Club in Cleveland; Madison Country Club in Madison, Ohio; Bellerive Country Club, St. Louis; Cuivre Club of St. Louis, and is a member of the St. Louis Crime Commission.

Miss Carol Ann Keen, Barnes Head Nurse, died as a result of injuries sustained in an automobile accident near Lafayette, Indiana, on last December 15th. Carol originally joined the Barnes Hospital Group as Staff Nurse on October 5, 1959.

Riding as a passenger in an automobile enroute to her parents home in Remington, Indiana, to be with her family for the Christmas Holidays, they approached an accident involving two other cars in the road ahead. Noticing that a passenger in one of these cars apparently had been hurt, she got out in an attempt to render any first-aid needed. A tow-truck which had been called to the scene, skidded on the icy pavement, colliding with the car of the passenger Carol was attending. The impact threw her some 40 feet. Death was instantaneous, it was reported.

A Memorial Fund at Barnes has been established in her name. Many members of the Barnes Personnel Group, employees, doctors, nurses and others, have contributed to this fund. Further contributions may be made by contacting Susan Hackman, R.N., at extension 3314 or 757.

The entire Barnes Personnel Group offers most sincere sympathies to Carol’s family.
FIVE WAYS PATIENTS SEE US!

There are five separate ways in which our patients, their relatives, friends, and the general public see us. And - the impression they get in these five areas determine to a large extent how they feel about our entire organization and its services. What are they?

How We Act:
Our personal habits, little mannerisms, walk, poise (or lack of it), and general alertness.

How We Look:
Appearance, neatness, cleanliness, habitual expression - all are part of our make-up that is seen by others.

How We Speak:
Our abruptness or harshness or clarity and control, variety, or monotony, muffled or audible, hesitant or decisive.

How We Think:
With tolerance or bias, with hate or kindness, with clarity or confusion, with fear or knowledge.

How We Feel:
Zestful or bogged down, relaxed or tense, rested or always tired and irritable, confident and self-assured, or worried and depressed, contented or unhappy.

Look over each area and rate yourself honestly on each factor. Then if it's called for, start a personal improvement program to create a more favorable impression whenever weak spots show up. Keep in mind - no person is 100% perfect. Those who are hitting the target have usually spent considerable time and effort in improving themselves.

If you want to carry this rating-yardstick a little further, get a friend - one who you know can be objective - to check you on the five traits. You'll find that the time you spend polishing these factors to better present yourself to others will pay off in real dividends - both in personal happiness and success on the job.

If you put your best foot forward, others will do likewise!

The business world makes use of an important word that could be of great, great value to every person, regardless of the line of endeavor that is followed. This happens to be the time of the year that the word is used most, and it could be the time for all of us to give it profitable consideration. The word is inventory. One of several definitions is "an itemized list of goods with their estimated worth". This implies that the merchant has to take stock to discover what the inventory really is. This must be done with care, otherwise the facts would not be known. A careless listing would have no more value than a guess. It is not advisable to guess about things that are supposed to have worth.

All people have goods that are worth listing and placing a value upon. Many of us have no great number of material and tangible goods, but there are others. We have all heard the term "the stuff out of which a person is made". We know that this refers to the inner qualities that every normal person can have. They are the kind that we do not get by any trick of manipulation, but through realistic desire and planning on the part of the individual. We have the need, as well as the merchant, to take stock to see what our possessions are. This does more than we think until we try it. We not only see our present condition, but we discover the mistakes and shortcomings of a period that has passed. If we find that we are big enough to do it, we generate some new energy to do better in the days that are ahead.

What successful merchant would be content with starting out to do no more business this year than he did last? How much more important is the business of living from day to day!
BARNES’ CONTESTANT SELECTED FOR “MISS METHODIST STUDENT NURSE”

Miss Mildred Moore, Senior Student Nurse in the Barnes Hospital School of Nursing, has been selected to represent the School in the annual “Miss Methodist Student Nurse” contest held over the nation among Schools of Nursing in Methodist-affiliated hospitals.

The target of the national contest is to select the most outstanding young lady, among the students of the above schools, who is following the Christian vocation of nursing in a Methodist-related institution.

Contestants are selected from the senior classes of the different schools, among students who are in the upper third of the class in their studies, who possess a high moral character, pleasing and congenial personality, and who demonstrate a professional interest in nursing and who are unmarried.

The personnel of the entire Barnes Hospitals Group extend best wishes to Mildred in this contest.

ANNUAL REPORT (Cont’d. from Page 7)

floors including an eight-patient sub-recovery or intensive care unit. Both will be completed early in 1962.

The punch card accounting installation using IBM cards was moved into new and expanded, air-conditioned quarters during the summer. The punch card accounting system took over the clinic accounting in December of this year, giving a more centralized accounting and statistical control of operation.

A grant of $95,810 to further the continuation for a three-year period of the investigation of bacterial contamination of the operating room air and its importance in the genesis of operative wound infection was received from The John A. Hartford Foundation. This is a continuation of a prior three-year staphylococcal grant which was initiated by The Hartford Foundation. This research has already been most productive through a study of recirculation of air in the operating rooms which, after four months of testing, gives conclusive evidence that 80 per cent recirculated air in a surgical suite is bacteriologically safe. This will have great savings to hospitals who have been using 100 per cent fresh air. The saving will pay for the air-conditioning equipment in approximately seven years. An article by Drs. Harvey Bernard and William Cole of the Department of Surgery, Washington University School of Medicine and Barnes Hospital, and Mr. James Claywell, assistant chief engineer of Barnes, published in the American Hospital Association’s journal, HOSPITALS, on November 1, 1961 has been widely noted and commented upon.

In addition, The Hartford Foundation awarded Barnes Hospital a grant of $100,490 to apply electron microscopic technique as an aid in the diagnosis of routine surgical specimens for a three-year period. The facilities for this grant will be housed within the Wohl Clinic building.

The Trustees received a gift of $3,500 from the Scottish Rite Foundation, continuing the practice of several years standing of supporting the free care work in this hospital group, specifically in the fields of plastic surgery and psychiatric care for wayward youths.
The Barnes Student Nurse Choir of 189 voices was especially busy during the Christmas Holidays. On December 18th the girls sang carols over St. Louis radio station K.M.O.X. and were invited by the station to return on December 22 to sing on the television program, “Good Morning, St. Louis”, K.M.O.X. - T.V., Channel 4.

Shown above in the main lobby of Barnes Hospital, the Choir is presenting their annual Christmas Program for patients who were able to be transported from their rooms to the main lobby for the program. The program consisted of a Processional, a reading of “The Night Before Christmas” and a Pageant - The Christmas Story - written especially for the Student Nurses by Mr. Joseph Greco, Associate Director.

Following the program, the Choir caroled throughout the patient floors of the Barnes Hospitals Group and St. Louis Children's Hospital. The Choir is under the direction of Mr. Jerome Rosen.

The clinical research center located in Barnard Free Skin and Cancer Hospital cared for 184 patients for a total of 3,706 days. The research center, operated under a grant by the U.S. Public Health Service, has been most satisfactory.

The parking garage owned by Washington University, which opened for medical center parking in November, 1960, eased but did not solve the critical parking situation. In August, 1961, the Way Petroleum Company under an agreement with Washington University assumed control of all the ground parking lots owned by the University. Parking continues to be critical. Barnes maintains control over the two parking lots located within the hospital area proper which is used for parking of medical staff.

NEW YEAR’S DAY
THROUGH THE YEAR
TO START FRESH AGAIN

The new year has in the past begun at many different times. The ancient Egyptians began the year on September 21; the ancient Greeks, on December 21. March 25 was the usual New Year's Day among Christians during the medieval days. The Gregorian calendar which was introduced in 1582 put January 1 in the position of New Year’s Day and was immediately accepted by all Catholic countries. It was accepted by Germany, Denmark, and Sweden about 1700, and by England in 1752.

No matter when the new year was begun, it is a time to forget the past year, look forward to the coming year, and to plan for the future years.
CHRISTMAS EVE SERVICES IN BARNES LOBBY

The beautiful tradition of Christmas Eve Services in the lobby of Barnes Hospital was again repeated on December 24th for patients, relatives, friends, and hospital employees. Dr. Frank Bradley, Director, Barnes Hospitals Group, introduced Bishop Eugene M. Frank (shown above), who delivered the Christmas Message. This is an annual visit on the calendar of important engagements of Bishop Frank who is presiding officer of the Missouri Area of The Methodist Church.

The program consisted of an Organ Prelude by Mrs. Helen M. McCoy, volunteer organist for the past eleven years; carol music by the Barnes School of Nursing under the direction of Mr. Jerome Rosen, Choir Director; The Call to Worship by Dr. George Bowles, Barnes Chaplain; and a Scripture Lesson and Prayer by Dr. Albea Godbold, Superintendent of the St. Louis North District of the Methodist Church.

STILL NOT NEW IN '62

Let me be a little kinder,
Let me be a little blinder,
To the faults of those about me,
Let me praise a little more;
Let me be when I am weary
Just a little bit more cheery-
Let me serve a little better
Those that I am striving for.

Let me be a little braver
When temptation bids me waver,
Let me strive a little harder
To be all that I should be;
Let me be a little meeker
With the brother who is weaker
Let me think more of my neighbor,
And a little less of me.

BARNES HAS FIRST 1962 BABY BORN IN ST. LOUIS!

A boy, born at 12:15 A.M. Monday, January 1st in Maternity Hospital of the Barnes Hospitals Group was St. Louis' newest resident in 1962.

Young Lawrence Stuart Adler, son of Mr. & Mrs. Robert E. Adler, 4521 Parkview Place, is also a first-born for the Adlers.

The father of young Lawrence is a sophomore student at Washington University School of Medicine and spent New Year's Day on duty in the X-ray department of Barnes after his son's arrival in the early-morning hours.
IT'S NOT ALL WORK! THERE'S THE "CLINIC CAPERS"!

In spite of all the accomplishments that take place each day in the Washington University Clinics, it's not all work.

On December 22, Clinic employees presented their annual Christmas party - this year titled Clinic Capers - in the Clopton Auditorium. Led by Dr. Frank R. Bradley and his snappy selection on "the Bones", a talented staff of employees put on another "hat" to serve as equally talented performers before an enthusiastic audience of fellow employees.

Guided by the skillful Mastering of Ceremonies on the part of Dr. John Grant, some of the highlights of the show follow:

M.C. Dr. John Grant

Mr. & Mrs. Santa - Earl Wilbanks & Ruth Black

Linda Metcalf sings

Mountain Music by Minnie Strickland
Newest Dance craze, "The Twist". Elroy Arnold & Birdie Rush

Richard Dial and his electric Steel Guitar

Dr. Seymour Reichlin and his Harmonica
Loyce Rutherford sympathizes with
"The Bird in the Gilded Cage" - none other than Mr. Horsh

"The Shag" - Sally Nosser - Joyce Boyer

"It's Only A Paper Moon" - Sally Nosser

"Frankie and Johnny" skit - Opal Kemper, Jan Godfrey & Glenda Nebuloni
DEATH TAKES FORMER CHIEF LAB TECHNICIAN

Condolences of Barnes Hospitals Group Employees are extended to the family of a former employee, Mrs. Alice Wheeler, Jr., who died at her home in Houston, Texas on October 27. She was Chief Technician in charge of the Barnes Blood Chemistry Laboratory while her husband, Dr. C. J. Wheeler, Jr., was a resident in surgery at Barnes from 1951 to 1954. During this period Mrs. Wheeler also attended Washington University night school - earning a B.S. degree in chemistry in 1954.

Mrs. Wheeler was the holder of one patent involving paper chromatography for spoilage of frozen foods, and co-author of two papers regarding cancer research. She was listed in Leaders in American Science, and also listed in Who's - Who In American Education, Inc.

She is survived by her husband and five sons.

BARNES HOSPITAL
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