

HISTORY OF RADIOLOGY IN PIERCE COUNTY

William B. Jackson M.D.

I have had the good fortune to be at a confluence of medical and radiology history in Pierce County during my practicing lifetime. I joined TRA, known as Tacoma Radiology Associates at that time, in 1972 and knew the senior radiologists Drs Flynn, Rigos, and Maki. The oldest partner, Dr. Raymond MacRae, had retired previously in the early 1950s. I became interested in the medical history of Pierce County when I was president of the Pierce County Medical Society in 1988 during its Centennial year. I am certain that I am the only person who has read all the PCMS bulletins since their inception in 1930 to 2008. I also researched the PCMS records stored at the Washington State Historical Society. These archives consists of three large boxes of the minutes of PCMS meetings dating back to the society's beginning in 1888. The archives also include pictures and membership records for 50 years. At the time of my retirement I gave a pictorial presentation of our history and created a DVD with voiceover which is in our archives at TRA.

Wilhelm Conrad Roentgen discovered xray emittance from a cathode tube in 1895 for which he received the first Nobel prize for physics. The discovery was in Germany in November, 1895. Amazingly there was a Crookes cathode ray installed at Fannie Paddock Hospital a short 13 months later. I found an article about the first patient xrayed in Tacoma, dated Jan 1, 1897, in the archives of The Tacoma Daily Ledger. I also found a picture of the electricity room circa 1900 in the PCMS archives. The "Electricity Room" was run for many years by George Smith, a graduate of the first nursing school at Fannie Paddock Hospital. Fannie Paddock Hospital was the first hospital in Tacoma, the precursor to Tacoma General Hospital.



Wilhelm Roentgen 1895



EARLY CROOKES TUBES

WHERE IS THE BULLET?

ROENTGEN RAYS BEING USED ON POLICEMAN BROTTON'S NECK

MODERN SCIENCE USED, BUT FAILS TO WORK SATISFACTORILY

Three experiments fail because the shortness of the exposures. Other trials with the x-rays will be made.

Three times the X-rays were turned upon policeman brought in last night at the Fannie Paddock Hospital, for the purpose of locating the remaining bullet which he received a week ago from the burglar's pistol. Although the experiments were unsuccessful, they were by no means a failure, and, will be renewed at the first opportunity. The failures were due to the shortness of the exposures, the longest of which was 10 minutes

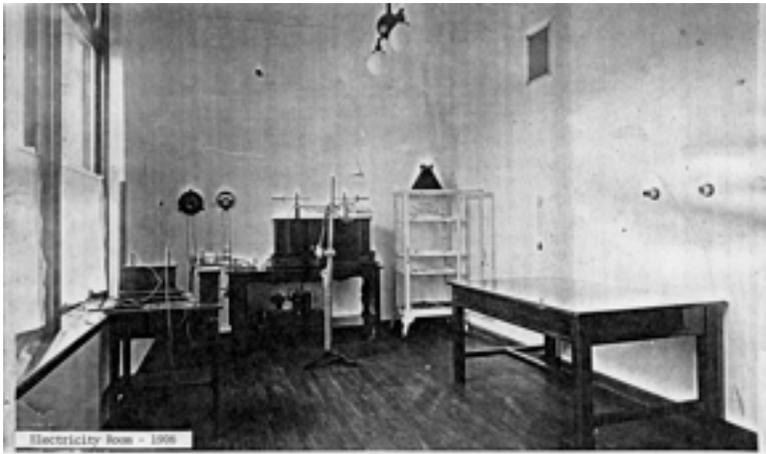
Those who took part in the experiment were Drs. Yocum, McCutchen, Allen, Coleman, Wagner, Schug; Electrician McDonald, the head operator of the Western Union, his assistant Mr. Reed, and the developer Paul Letman.

Brotton was stretched lengthwise on the table with his head resting on a block. Power was had by attaching the X-ray apparatus to the incandescent lights wire.

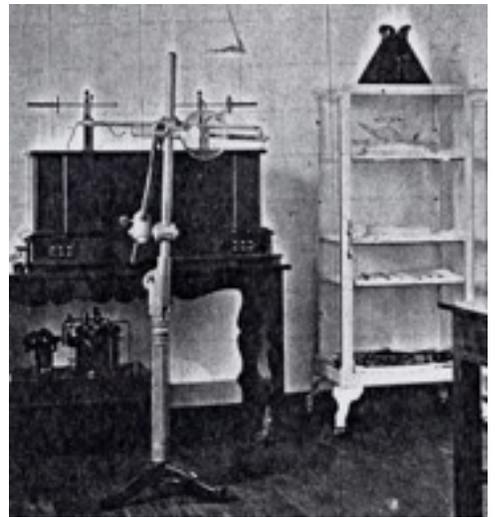
Brotton's neck, when the bullet is supposed to be embedded, was placed in range of the light, about a foot away. The plate was held on the opposite side of the neck. Not the lightest impression showed as a result of the 1st exposure, which lasted 2.5 min. The next test lasted 7 minutes, and although no definitive results were obtained, it showed slight impressions of the skull. Another experiment was also unsatisfactory. Then the ray was turned on the forearm of Dr. Wagner, which has a slight fracture. The two bones of the arm were brought out in startling relief and plainly showed the fracture part.

The doctors came to the conclusion that the exposure was not long enough, as the neck forms considerable resistance.





Electricity Room installed at TGH in 1897



Crookes tube on stand and hand held flouroscope on top of cabinet.



George Smith in white coat with the first nursing school class at TGH. He ran the “Electricity Room at TGH from 1897 till retirement in 1930.

In 1918, at the end of WWI the first dedicated radiologists came to Tacoma. Dr Raymond D. MacRae at St Joseph Hospital, Dr. Elba D.McCarty at Tacoma General Hospital, and Dr. Charles Ross Fischel at Veterans Hospital, Western Clinic, and Bridge Clinic.

Dr Raymond MacRae was the Radiologist for St. Joseph Hospital in Tacoma, St. Peter Hospital in Olympia, Burlington Northern railroad hospital and McNeil Island Prison from 1918 till 1950. He played semipro baseball and was in the 1918 Rose Bowl game between Fort Lewis and Mare Island USMC. Outgoing, affable, and frugal, were descriptors I've been told by people who knew him. Dr MacRae opened an office in the Medical Arts Building in 1931. He practiced by himself until Dr John Flynn joined him in the Spring of 1950. .



TGH Xray 1920



Dr. Raymond D. MacRae

Dr Elba D. McCarty was the first residency trained radiologist in Pierce County. Following a period of training in radiology at Peter Bent Brigham he began his career at Tacoma General Hospital and the City-County Hospital in 1922.



Dr. Elba McCarty 1925



First Radiation Therapy
TGH 1930

Dr McCarty purchased a 300KE brachytherapy machine at TGH for \$10,000, the first high voltage radiation therapy in Tacoma. He was responsible for the early development of both hospital's xray departments. In 1930 he left TGH to practice at City-County Hospital and an office practice in the Medical Arts Building.



Original Fannie Paddock Hospital
1882



Fannie Paddock Hospital
1889



City and County Hospital, 1891



St Joseph Hospital 1899

The Third pioneer in radiology was Dr Charles Ross Fishel who came to Tacoma at the end of WWI at around 1918. Dr Fishel provided radiology for The Western Clinic and the Bridge Clinic. He was also the radiologist for the original Veterans Hospital, built on the grounds of what is now Emerald Queen Casino. He provided coverage to the new Veterans Hospital when it moved to American Lake. The old Veterans Hospital became the Indian Hospital. Dr Fishel had an office at the Medical Arts Building from it's opening in 1931. Following a heart attack in 1941 he retired and the practice was then assumed by Dr Stevens S Sanderson. Dr Alan Hart became the radiologist for TGH in 1930 till Jan 1, 1933. Dr Milo Harris assumed the position of radiologist for 18 months.



Dr Alan Hart in flouroscopy
1931



Dr Bernie Harrington in white coat at
a TGH tumor board in 1939

The Medical Arts Building, the first skyscraper in Tacoma, opened in downtown Tacoma in 1931 and became the center for the private practice of medicine in Tacoma. There were three radiology offices in the building listed in the opening announcement, Drs C.R. Fishel, Dr. R.D.MacRae, and Dr. E.D.McCarty. Initially one floor housed the Minor Hospital. The basement was the headquarters for the PCMS for many years. It was sold to Pierce County for office space in the 1980s.



Medical Arts Building 1931



Dr Bernie Harrington



Dr Al Sames

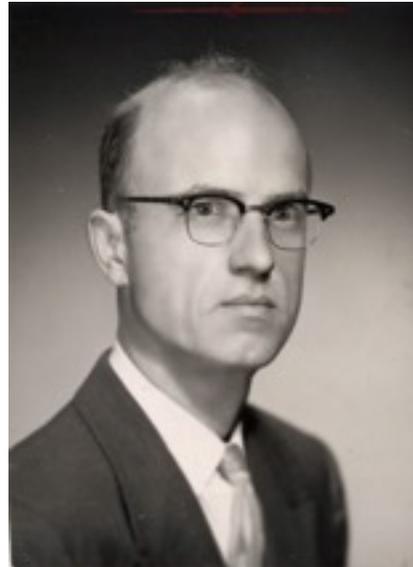
Dr Bernard Daniel Harrington and Dr Albert Sames became the radiologists at TGH Sept 1934 until they were drafted into the US Air Force during WWII in 1942.

Dr Sanderson assumed the practice of Dr Fischel in 1941 and covered the VA Hospital, the Indian hospital, the Western Clinic, and the Bridge Clinic. Drs Fischel and Sanderson were the ancestors of MIN.

Dr Frank Rigos, who had a medical waiver for military service for previous tuberculosis, became director of radiology for Tacoma General Hospital from 1942 till 1974. He also provided radiology services to many other communities intermittently, Port Angeles, Bremerton, Aberdeen, Ketchikan, and the Alaskan Health Service. "Reading the stacks" and "performing the flouro schedule" was the routine in earlier radiology. Frank was an avid hunter and fisherman and often blended fishing with traveling to these locums sites.



Dr Stevens Sanderson 1941



Dr. Frank Rigos 1942

Page 5 has pictures of the original hospitals prior to 1900. Let me do a brief retrospect of the unique development of medicine in Pierce County that led to the medical system that we see today. A financial crisis of 1893, which parallels our present economic crisis, resulted from too easy credit, a glut of railroad building, too many undercapitalized banks, and a multiyear drought for the farmers. The problems were made much worse by congress responding to special interests by writing the Sherman Silver Repurchase Act of 1890. 500 banks closed and 15,000 companies went bankrupt, several railroad companies failed including our own Burlington Northern Railroad. Unemployment nationally hit 18% and was the most severe in the West. There were big political dislocations as the Democrats and Populists lost heavily in the elections of 1894. The effect of those events on our local hospitals was that many could not afford to be hospitalized and were uncompensated charity cases. Importantly, the hospitals depended heavily upon charitable donations at that time and to survive TGH created prepaid insurance contracts for industrial and government workers, not common at that time.

The then administrator of The Fannie Paddock Hospital, Dr. McCutcheon, struck a per capita prepaid agreement in 1893 with the St Paul and Tacoma Lumber Mill, a form of hospital insurance with hidden fee splitting with the staff physicians, the first of its kind in the country. This was followed by many other “prepaid arrangements” with the lumber, railroad, and marine companies as well as government workers. One of the few “staff” physicians at the time, Dr. James R. Yocum, seized upon the same idea and created a similar physician prepaid insurance product through his Yocum and Curran Clinic on Pacific Avenue. His clinic later transitioned to The Western Clinic, the precursor to the present Franciscan Medical Group. The power struggle between the hospitals and physicians was alive and well at the turn of the 20th Century. Dr Yocum, a connected, smooth, Harvard man had the industrial contracts sewn up. If you Google “history of HMO in U.S.” the Western Clinic is referenced as the first HMO system in 1910.



J. R. YOCUM, 1889



Doctor Albert Bridge

The antithesis of Dr. Yocum, except in ambition, Dr. Albert Bridge, arrived in Pierce County in 1905. He was born in a logging camp in Vermont where his father was killed in a logging accident while Albert was still a youth. His mother worked as a cook to provide funds for his education which culminated in graduation from the University of Vermont Medical School in 1904. He was attracted to Eatonville, a logging community, and was able to observe the new industrial medicine model being created in Tacoma. To devise a better competitive strategy, this man who looked and dressed like a logger decided to sell “hospital tickets”, insurance to individuals and their families who were not covered by businesses. His insurance product included a hospital, a small house with beds in Eatonville, physician services, a pharmacy and an ambulance, all for the price of one dollar each month. For additional coverage of your spouse and children the price was another quarter.

Both of these physicians became very wealthy as they developed multiple clinics/hospitals throughout Puget Sound. Dr Bridge eventually had 13 hospital/clinics in Washington state including Seattle, Everett, and Wenatche.

The private practice physicians of Puget Sound became alarmed as they lost market share. Through their societies, Pierce County Medical Society and King County Medical, they had these doctors censored and canceled their memberships. They also created competing prepaid products, Pierce County Medical Bureau in 1917, the first in the country, and King County Medical Bureau in 1933. Many years later they merged to form Regence Blue Shield.

In the midst of all this competition hospital development continued. The Northern Pacific Beneficial Association, the railroad employees, built their new hospital in the McKinley Hill area. The new St. Joseph Hospital and Tacoma General Hospital were built at the sites of the present hospitals in 1915. The Pierce County charity hospital was built in 1929 to replace the City-County Hospital. Cushman VA Hospital opened in 1916 and was moved to American Lake in 1925. A Contagion or Pestilence Hospital was built in 1920 for infectious disease isolation, also known as the “Pest” hospital. The Influenza Epidemic of 1818 was devastatingly lethal and killed nearly one million Americans nationally. Pierce County had one of the highest mortality rates in the nation with recorded total of 985 deaths.



Northern Pacific Hospital 1905



St. Joseph Hospital 1915



Tacoma General Hospital 1915



Pierce County Hospital 1929



Western State Hospital 1916



VA Hospital 1916



Cushman Indian Hospital 1927



VA American Lake Hospital 1924



Tacoma Contagion Hospital 1921



Tacoma Ambulance 1919



Bridge Building and Clinic 1930



Fort Lewis Hospital 1932

The PCMB purchased the Bridge Clinic in 1946 and following extensive renovation was opened as Doctor's Hospital in an attempt to balance the control between the physicians and the hospitals. Physicians groups were developers of the original Puyallup Hospital in the 1930s and Allenmore and Lakewood Hospitals in the 1960s.

Following WWII Dr Harrington and Sames returned from the military to join Dr. Rigos. In addition to TGH and Medical Arts, they had the contract for radiology at the new Doctor's Hospital. The TGH board demanded that they chose between TGH and Doctor's Hospital. Dr. Rigos remained at TGH and Dr. Harrington and Sames took the contract for Doctor's Hospital



Doctor's Hospital 1950

In the 1930s there was a hospital established in downtown Puyallup, Puyallup General Hospital. The Lutheran Home and Welfare Society took over management of the hospital in 1951 and at the same time separately built the Hospital for Chronic Diseases of the Aging. In 1957 the hospitals were consolidated in a new hospital as Good Samaritan Hospital at its present location. A new tuberculosis sanatorium, Mountain View Hospital, was opened in Dr Jarvis had the radiology contract for many years but it was subsequently assumed by MIN when Drs Jarvis and Sames established an office practice in Puyallup.



Dr Joe Jarvis



Dr John Flynn



Jack McDonald

Dr John Flynn was the son of a Tacoma surgeon and had been a general practitioner in Tacoma prior to World War II. He was the first physician in Tacoma join the military at the beginning of the war, serving as a naval flight surgeon in the pacific before entering a radiology residency in Chicago. He practiced two years in Longview, Wa as a radiologist before joining Dr MacRae at St Joseph Hospital in 1950.

Jack McDonald came to St. Joseph Hospital as the first trained xray technologist in Tacoma in 1950. Prior to that time all xrays were usually taken by nurses or the radiologist.

In November of 1951 there was an announcement in the PCMS bulletin of a new “association of roentgenologists R.D. MacRae, John R. Flynn, and F. Rigos”, the beginning of the consolidated TRA. TG hospital board was not pleased by the decision but accepted the decision by Dr Rigos.

The County built a tuberculosis hospital adjacent to the Pierce County Hospital in 1951.



Mountain View Sanitorium 1951

In 1952 the radiologists in Pierce County were Dr Al Sames at Northern Pacific Hospital, Dr. C.C. McCoy at the Indian Hospital, Dr. F. Rigos at TGH, Dr McCarty at Pierce County Hospital, Drs. MacRae and Flynn at St. Joseph Hospital, Drs Harrington and Sanderson at Doctors Hospital and Minor Hospital, and Dr. Joe Jarvis at Good Samaritan Hospital.

Dr Bridge left his estate in the late 1940s to build a children’s hospital named in honor of his mother, Mary Bridge. Mary Bridge Childrens Hospital was completed in 1955.



Mary Bridge Childrens Hospital 1955



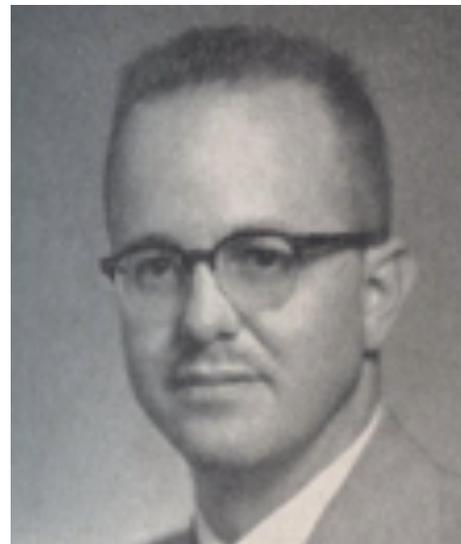
First Image Intensifier in Tacoma
MBCH 1956

A great advance in radiology was the development of image intensification. Prior to the mid 50s it was necessary to wear “red goggles” for 30 minutes to dark adapt before doing the flouro schedule. It wasn’t until the early 70s before all the old units were replaced. This scientific advance also led to the development of multiple “special procedures.”

Dr. Henry Maki joined Dr. Rigos and Flynn at the time of Dr MacRae’s retirement in 1955. Dr. Ken Gross came to Tacoma to join the Rigos, Flynn and Maki group in 1956 following 5 years of radiology practice in Spokane. In 1958 Ken left the precursor to TRA and joined Dr. Sanderson’s practice which was to become MIN. The groups were then know by the names of their radiologists, Rigos, Flynn, and Maki and Sanderson and Gross. The first catheterizations were performed in Tacoma by Dr. Sanderson. Subsequently special studies were developed by Dr Rohner at SJH and Dr Kenney at TGH.



Dr Henry Maki



Dr Ken Gross

Dr. Myra Vozenolik was a solo radiologist who opened an office in Lakewood in 1958 which she maintained until her retirement in 1991. She was the first woman radiologist in Pierce County.



Dr MyraVozenolik



Dr Bill Rohner

Dr Bill Rohner was an intern at St Joseph Hospital in 1956 and following a radiology residency at Iowa returned to become a partner of Rigos, Flynn, and Maki in 1960.

Dr. Sanderson died in 1962 and Dr. Vernon Larson joined Dr. Gross in early 1963.

Drs Rigos, Flynn, Maki, and Rohner became founders and developers of TRA and Drs Gross and Larson became the founders and developers of MIN. Drs Harrington and Sames were at Doctor's Hospital and Dr Jarvis was at Good Samaritan Hospital. Dr Vozenolik was in solo office practice in Lakewood.



Dr Frank Rigos



Dr John Flynn



Dr Henry Maki



Dr Bill Rohner



Dr Ken Gross



Dr Vern Larson



Dr Bernie Harrington



Dr Al Sames



Dr Joe Jarvis

Allenmore Hospital and Lakewood Hospital were built in 1960 and 1961 respectively, both financed by physician investors.



Allenmore Hospital 1960

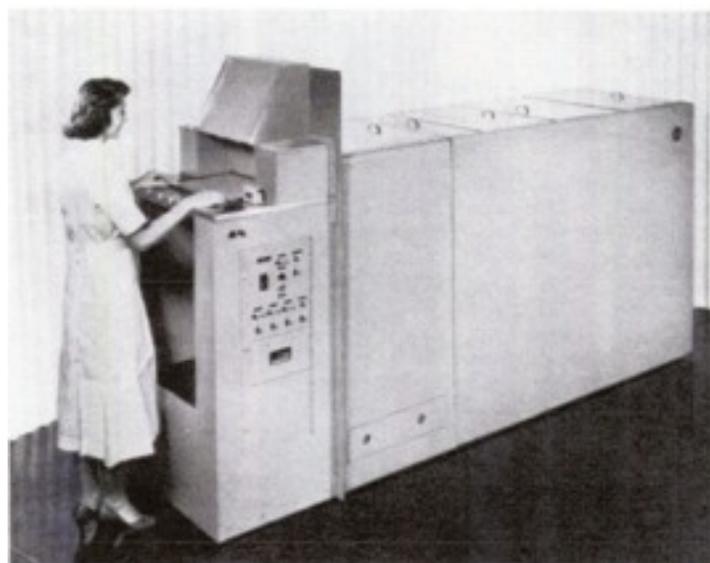


Lakewood General Hospital 1961

The practice of Radiology in the 1960s was very different from the present day practice. We were all general radiologists whose training consisted of a year of internship and a three year radiology residency, six months of which was in radiation therapy. Our days were spent reading a stack of film cases and performing fluoroscopy. It was common to perform 15-20 fluoroscopies in a day. We also supervised the radiation therapy cases in a room in the xray department. Dictations were either directly to a transcriptionist or on an old belt type recorder. Coned images of the gall bladder or compression studies of the urinary or gastrointestinal tract were as sophisticated as we got. Special studies were pneumo encephalograms, pneumoperitoneum, or bronchograms, and angiograms using direct arterial sticks and hand injections but without catheters. Films were obtained with three stacked cassettes pulled in sequence by hand. In late 1960s we progressed to a rolled film on the Franklin film changer and later to the individual cut films using the Puck film changer. Many of the films were developed manually or hand tanked until the development of the automatic processor in the early 70s in Tacoma. Progressive improvement of film, screen, and processing led to improved images with less radiation exposure. There were no subspecialties or certifications. Stacks of films accumulated in various offices and a radiologist would rotate to different offices or hospitals reading "the stacks" of films. Tacoma radiologists at times covered surrounding communities such as Aberdeen, Olympia, Bremerton or Port Angeles. TRA performed all the radiological work at Ketchikan, Alaska for several years. There was no night call except for an occasional film pelvimetry using a Snow pelvimetry device, usually ordered so that an Obstetrician would not have to get up in the middle of the night. As one can imagine the practice of Radiology was less intense and stressful than it is presently. It was not uncommon for partnership track to be 3-5 years and vacation was 4 weeks per year. Incomes were in the range of \$20,000 to \$50,000 per year.



Dark Room and film hangers prior to 1965



First Automatic film processor 1965



Xray and Flouroscopy 1968



Cobalt Therapy TGH 1968
Drs Rigos and Maki

The 1960s was a period of increasing specialization and special studies development. Drs Bob Whitney joined Gross and Larson in 1966. Dr. George Barnes came to TRA from LA Childrens Hospital in 1967. Dr Jim Kenney arrived in 1968 and developed the special studies at TGH. Dr. Gill Roller came from Iowa in 1969.



TGH Special Studies 1970
Franklin roll Film Changer



TGH specials 1974
Puck cut film changer



TGH expansion
1964



Dr Bob Whitney



Dr George Barnes



Dr Jim Kenney



Dr Gill Roller

At the beginning of the 1970s radiology consisted primarily of plain films and contrast studies. With the advent of computers medical imaging science development assumed a logarithmic rate of growth. There were twenty additional radiologists hired in Pierce County between 1970 and 1980, tripling the total number present at the beginning of the decade. A few of these new radiologists did not remain in Tacoma. New technologies included CT, ultrasound, nuclear medicine, digital imaging, special studies, mammography, new contrast agents as well as mundane improvements such as disposable barium bags, new barium preparations, disposable needles, tubing, etc.



The Bscan was a single plane that was “painted” in by the technician. It was used primarily for fetal head measurements initially. The Echogenic areas were white or black without Gray scale. Gray-scale ultrasound arrived in the later 1970s and #D gray-scale in the 1980s.



First ultrasound in Tacoma
Bistable or BScan
TGH 1973

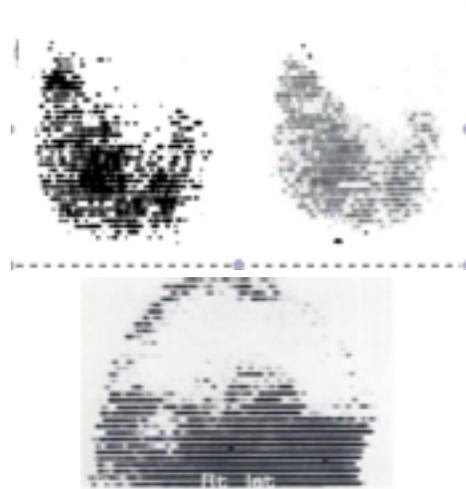


Bscan fetal ultrasound

This slow nuclear scanner measured the amount of radioactivity by the collimated detector on the left and printed the results on a piece of paper on the right. The greater the amount of radioactivity occurring under the detector, as it moved back and forth, the blacker or more frequent the printed dots on the image paper.

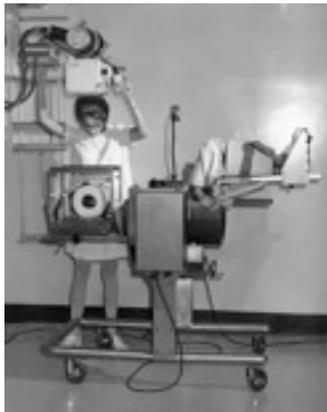


Picker dynamax rectilinear nuclear scanner that was used at TGH and SJH in early

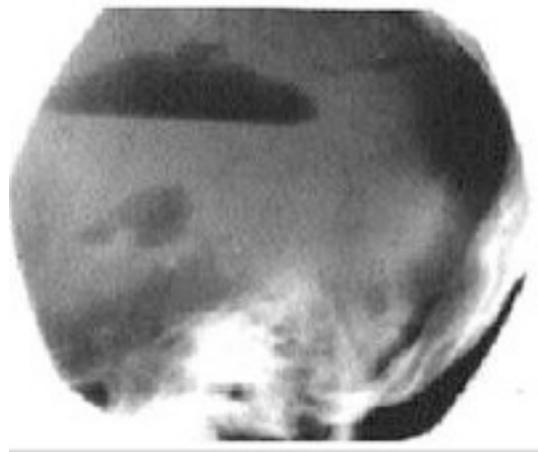


Rectilinear scans, I131 thyroid scans and Hg197

Before this advanced piece of equipment which arrived at TGH in 1974, pneumoencephalograms were performed by the technician and the radiologist physically tumbling the patient 360 degrees head over heels by hand. As one can imagine it was challenging and unpredictable. Fortunately for the patients and the radiologists the first CT scans arrived soon thereafter.



New tumbling pneumoencephalogram chair TGH



Pneumoencephalogram lateral



Head EMI scan 1974



First CT scanner in Washington State
EMI scanner TGH 1974

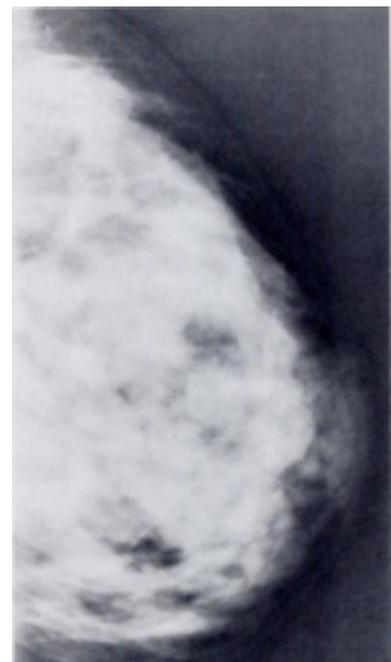
The pictures above were of the EMI scanner at TGH, the first in Washington State. It would scan the only the head but was revolutionary. The patient's head was placed in a water doughnet which was expanded to hold the patient's head without motion. A source and detector would traverse on opposite sides of the head known as "translation" before "rotating" 3 degrees to the next position where the translation was repeated. It required 4-6 minutes to acquire one slice and 3 minutes to reconstruct using "back projection algorithm". It required over an hour to complete the standard eight slices with an 80x80 matrix.



Mammography prior to the early 1970s was performed with the standard xray units, progress was using focused grids, bucky grids, or new types of film.



Mammography prior to 1970

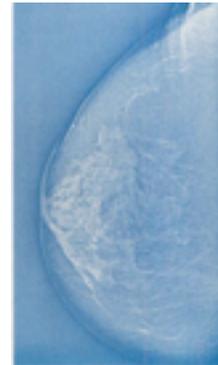


Mammogram circa 1970

Screening mammography was not a consideration.



XERG mammography mid 1970s



Xeromammogram late 1970s

The first screening mammography in Tacoma was a XERG(Xonics Electron radiography)mammography in an office on the TGH campus. Xerg mammography was replaced by Xeromammography in the early 1980s.

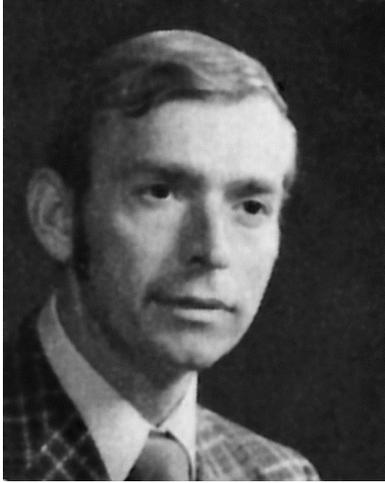
The radiologists were all generalists in the early 1970s which included radiation therapy and all special studies. The complexity and technological development led to subspecialties and their attendant boards in the 1970s. Dr Mike Campbell was the last radiologist in Tacoma to have had radiation therapy as part of his residency training.

In 1970 Gross, Larson, and Whitney, later to become Diagnostic Imaging Northwest and then Medical Imaging Northwest, covered Allenmore Hospital, Good Samaritan Hospital, Mary Bridge Hospital, American Lake Veteran's Hospital and Lakewood General Hospital as well as several offices.

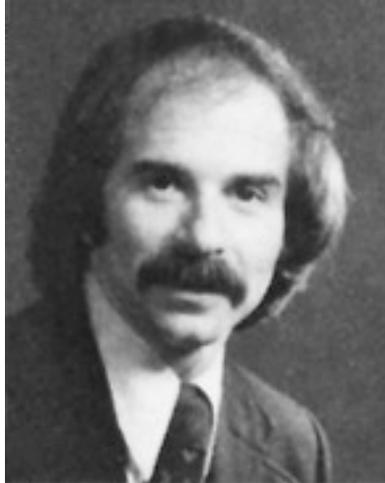
Rigos, Flynn, and Maki, later to become Tacoma Radiology Associates and TRA, covered Tacoma General Hospital, Doctor's Hospital, St. Joseph Hospital, and Puget Sound Hospital as well as several small offices in town. TRA was also providing sole coverage for Ketchikan General Hospital in Alaska and the Federal Prison at McNeil Island.

The independent radiologists in community offices were Dr Don Carlyle at Western Clinic, Drs Joe Kramer and Mike Mikkelson in Puyallup, and Dr Myra Vozenolik in Lakewood.

In the first half of the 70s decade Drs Jackson, Bourdeau, Bleiweiss, and Lazar joined TRA, Drs Pliskow and Rich joined MIN.



Dr Bill Jackson



Dr Ray Pliskow



Dr Jay Bourdeau



Dr Milt Bleiweiss



Dr Bob Rich



Dr Tony Lazar



Dr Don Carlyle



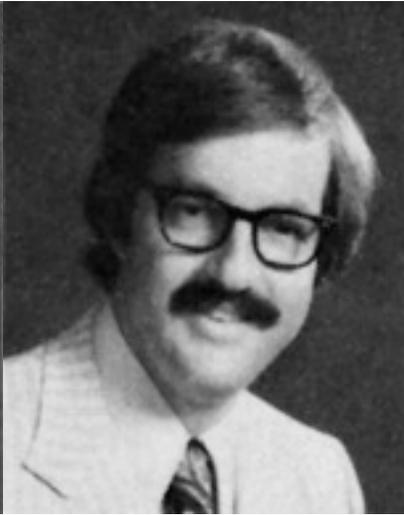
Dr Joe Kramer



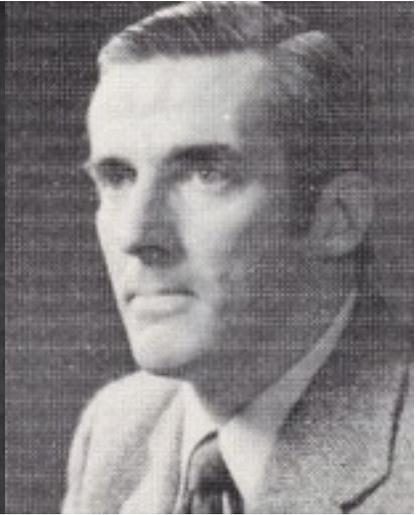
Dr Mike Mikkelson



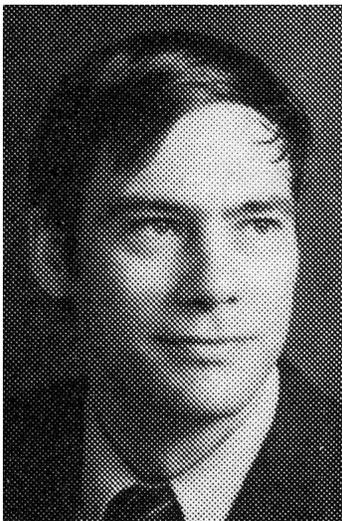
Dr Marty Graham



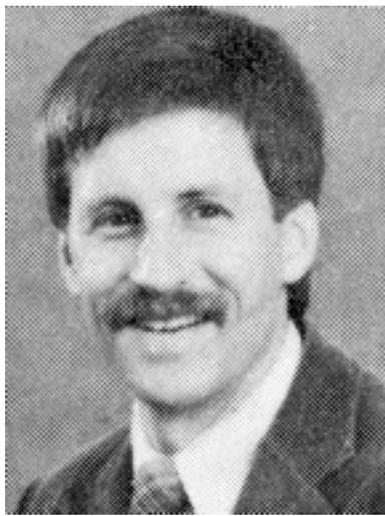
Dr Mike Campbell



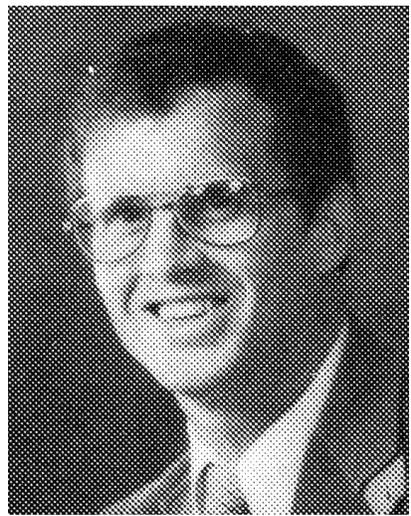
Dr John Flood



Dr George Weis



Dr Tom Rafoth



Dr Dennis Scholl

With the advent of technological progress came subspecialization and demand for additional staffing. In the mid and late 1970s TRA added Drs Lazar, Rafoth, Weis, and Scholl while MIN added Drs Campbell, Graham, and Flood.

Societies formed around areas of imaging subspecialization beginning in the 1950s and 1960s, particularly radiation therapy, nuclear medicine, pediatric radiology and neuroradiology.

Dr Vern Larson remained the core radiation therapist for MIN until his retirement while TRA hired fellowship trained radiation oncologists beginning in 1973. Dr Howard Wong was a practicing Gynecologist for twelve years in Minnesota before entering a radiation oncology residency. He came to Tacoma in 1974 and took over direction of TGH radiation oncology and was joined by Dr Mike Soronen.



Dr Howard Wong

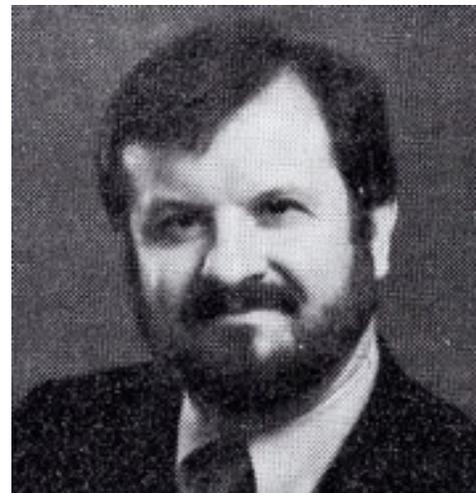


Drs Wong and Soronen

Dr Wong and Soronen subsequently became independent to found Tacoma Radiation Oncology Centers in Jackson Hall on TGH campus in 1979. Dr Wong was a founding member of the American College of Radiation Oncology(ACRO), was the college president, and received the GoldMedal awarded by ACRO.



Jackson Hall
across MLK from TGH

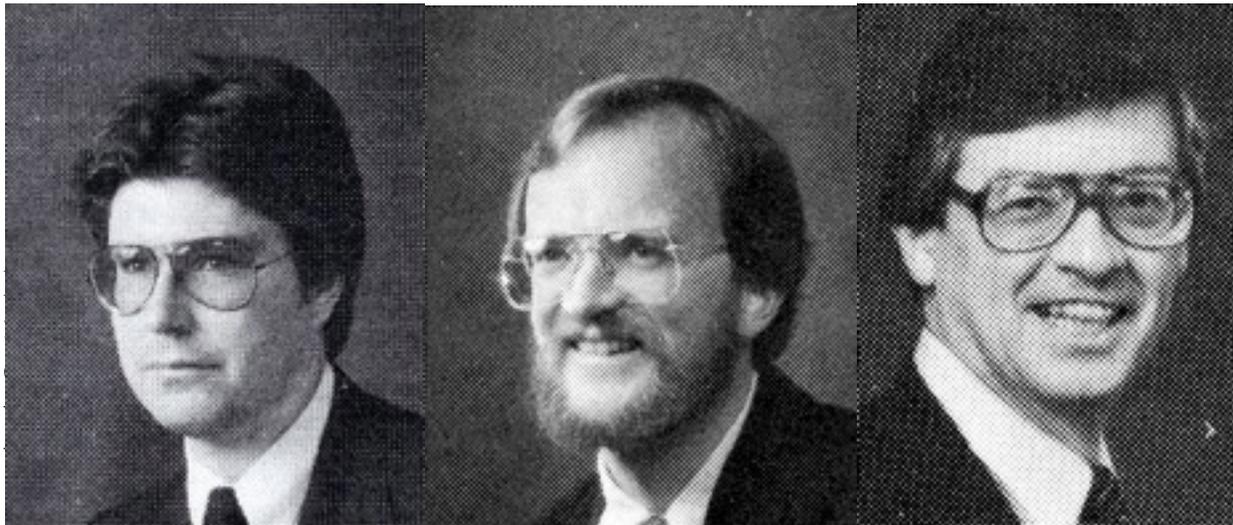


Dr Mike Soronen

Tacoma-Puyallup Radiation Centers expanded in the outpatient setting to presently include the campuses of Tacoma General Hospital(Jackson Hall), St Joseph Hospital, Good Samaritan Hospital, and St Anthony Hospital. Multicare now has facilities at TGH and in Gig Harbor.

Group Health developed clinics in Pierce County in the late 1970s.

Drs Rose, Lewis, and Jerde joined TRA in 1980, 1981, and 1982 respectively. Drs Nelson and Levine joined MIN in 1983. Dr Anderson joined MIN in 1984.



Dr Don Rose
Nuclear Medicine

Dr Dick Jerde
Pediatric Radiology

Dr Ed Lewis



Dr Andy Levine
Body Imaging



Dr Todd Nelson



Dr Zeno Anderson
Body Imaging
Nuclear Certification

As services and population increased the business aspects of radiology became more demanding. In the 1970s management progressed from rather basic billing offices without any accounting controls to being run by more comprehensive business managers. At TRA the billing offices in the early 1970s consisted of a room with a few boxes with hand written paper accounts. Many of the payments at an earlier time were in cash and trust was the primary financial protection .

Joanne Ashley Was the first “business manager” in our community beginning in 1967 for MIN. She remained in that capacity for 35 years. Jim Grasley was the first “business manager” for TRA coming from the accounting profession. He served TRA from March 1976 till July 1992. During his tenure all three served as the presidents of the Washington State Radiology Business Managers Association and Jim Grasley served as president of the the national RBMA and the Western MGMA. Nancy Turner became assistant manager for TRA in 1987 and then became manager in 1992 for the next eight years. In 1970 there were six radiologists in TRA and three radiologists in MIN, each generating 50 to 100 readings per day. Most offices were small with one to three employees. The title “business manager” now involves increasing complexity including management, billing, accounting, development, personnel, marketing, IT and multiple other titles.



Jim Grasley



Joanne Ashley



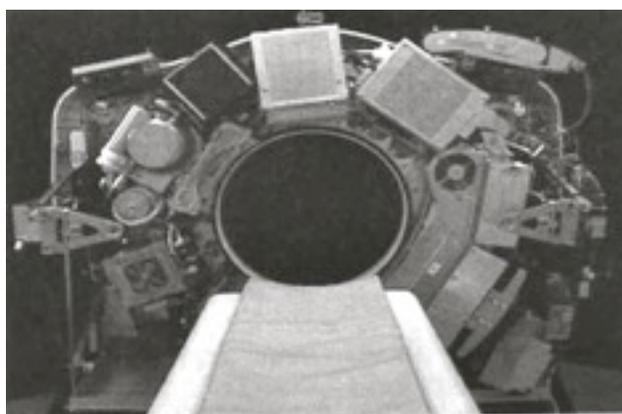
Nancy Turner



Dedicated film screen mammography



Early Ohio Nuclear gamma camera at TGH late 1970s



First "fast" CT scanner installed in Tacoma at SJH 1978. GE 8800



1980 grey scale

Computer applications created an explosion of progress in all areas of imaging in the 1970s. A GE 8800 fan beam CT scanner was installed at St Joseph Hospital at the beginning of 1979. Gamma cameras and ^{99m}Tc generators resulted in expansion of nuclear medicine services. Gray scale ultrasound was also being provided at the hospitals and offices resulting in a marked improvement in diagnostic accuracy. Dedicated mammographic units were being installed to replace the older xeromammography units beginning in 1988.

The very modern and controversial architectural designed St Joseph Hospital was opened in 1975. TGH expansion continue with the “J” wing added in 1977.



St Joseph Hospital and adjacent office building opened in 1975



Tacoma General Hospital
1977

The hospitals of the 1970s began to consolidate and enlarge as they became hospital “campuses” and “healthcare systems”, a trend that would continue for both hospital systems to the present. Another inexorable trend that began during the late 1980s was the hiring of physicians by the two hospital systems. The doctrine during that period in healthcare management was that the “three legs of the stool” were needed for hospital systems to survive, hospitals, an insurance product, and physician employees. In 1980 Tacoma General Hospital merged with Mary Bridge Hospital and Doctor’s Hospital to become “Multicare Healthcare Systems”. Doctor’s Hospital closed in 1984. Allenmore Hospital, which had been bought by Humana in 1986, sold to Multicare in 1989. In 1990 Lakewood Hospital was purchased by the Franciscans and became St Clare Hospital.

In 1987 the Franciscans combined their few clinics with Providence Hospital of Seattle to form Medalia Healthcare. They acquired more clinics and in 1993 Medalia purchased the 90 year old Western Clinic. Medalia became financially challenged in the 90s and in 1998 their physicians applied for union status with the government. The response was that Medalia was dissolved and the Franciscans formed the present Franciscan Medical Group.

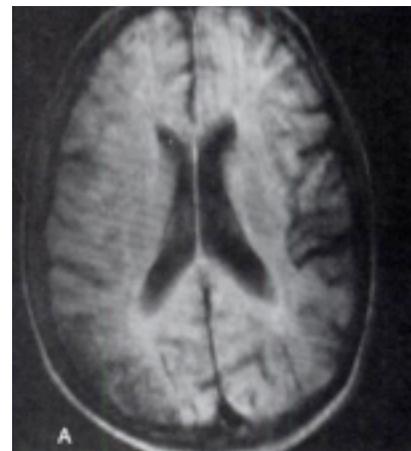
Multicare Medical Group paralleled the Franciscan Medical Group development. In 1994 a group of five primary physicians adjacent to the Multicare campus became employees of Multicare and in 1996 several clinics in South King County also joined. By 2011 each “hospital system” had grown to approximately 50 outpatient facilities employing hundreds of providers. The epicenter of their market areas in Tacoma extended to Federal Way, Covington, Maple Valley, Enumclaw, Eatonville, Olympia, and Gig Harbor. The growth of TRA and MIN paralleled these expansions.

The 1980s saw further miraculous technological development with the advent of Nuclear Magnetic Resonance, later renamed MRI. Mobile MRI services were used in our community initially in 1985 and 1986. CON law application by the state distorted the market so that most of the first units were installed in outpatient settings. I was the representative from WSRS to the advisory committee to the state health planners for both CT and MRI. The state health planners in both instances described these technological breakthroughs as doctor’s toys that needed to very limited. Local administrators were very cautious about these new technological miracles and doubted that they would be successful.

The first fixed site MRI in Pierce County was Tacoma Magnetic Imaging, a partnership of TRA, TGH, Franciscan Healthcare, and local physicians which opened in May of 1987. The first scanner installed was a .5T Picker MRI which was passively shielded. A 1.5T GE sigma was added in July, 1990. Over the next decade multiple MRI scanners were added in the hospitals and in outpatient settings. MIN opened Mt Ranier MRI Center in Puyallup in 1990.



Tacoma Magnetic Imaging.



.5 T Picker image 1987



.5 T Picker images
TMI 1988



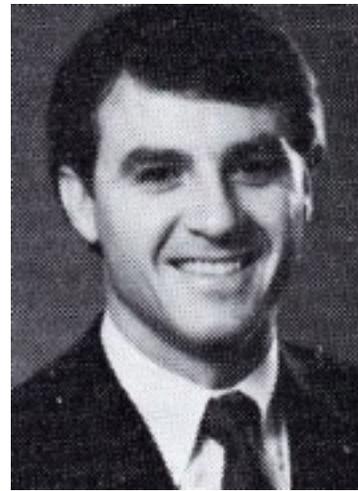
The increase of subspecialization and fellowship trained radiologist occurred in the 1980s. Drs Livingston, Tobin, and Lesh joined TRA in 1986 and Dr Carleton joined MIN. Drs Dumler and Dr Deutsch joined TRA in 1987 and 1988 respectively.



Dr Robert Livingston
Neuroradiology



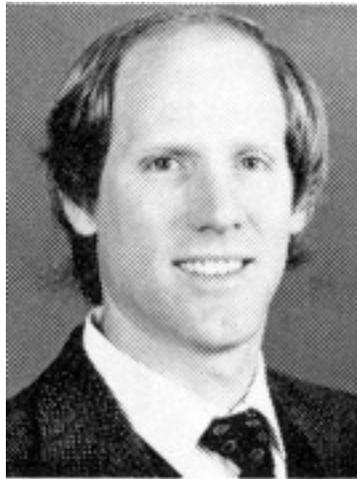
Dr Rick Tobin
Interventional Radiology



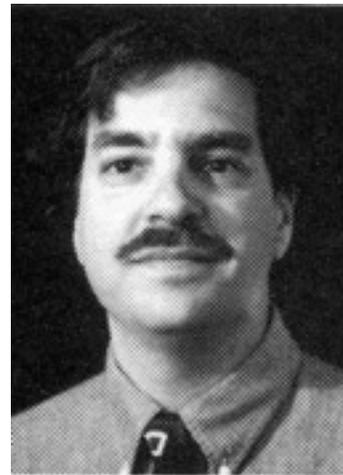
Dr Phil Lesh
Nuclear Medicine



Dr Scott Carleton

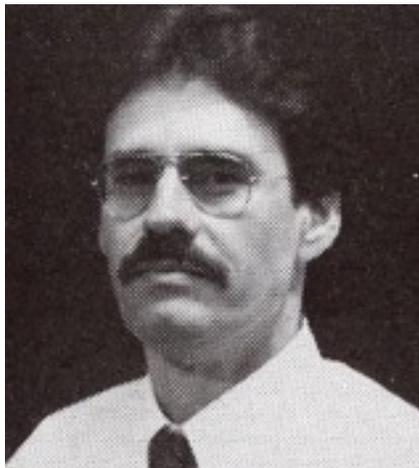


Dr Tom Dumler



Dr Drew Deutsch
Internal Medicine
Body Imaging

Dr Dan Martin joined MIN in 1989, Drs John Peixotto and Randy Otto joined TRA in 1990.



Dr Dan Martin
Neuroradiology



Dr John Peixotto
Women's imaging
Pediatician



Dr Randy Otto
Pediatic Radiologist

Radiologists in Pierce County were exclusively white males for 70 years datomg 1920 to 1990 with the exception of the office practice of Dr Vozenolik. Dr Alison Reinbold joined MIN in 1992 to become the first full time practicing female radiologist in our area. Dr Larry Frood joined MIN in 1991. Drs Tod Wurst and Frank Wessbecher joined TRA the same year. Dr Erik Bjarke joined MIN in 1993. Dr Tom Keskey joined TRA the following year in 1994.



Dr Larry Frood
Interventional Radiology



Dr Alison Reinbold
Body Imaging



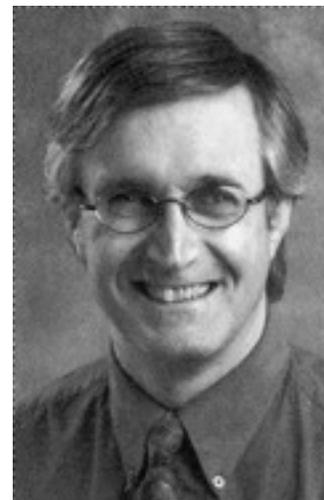
Dr Tod Wurst
Interventional Radiology



Dr Frank Wessbecher
Neuroradiology



Dr Erik Bjarke
Body Imaging



Dr Tom Keskey
Interventional Radiology

St Francis Hospital opened in Federal Way in 1987, initially covered by retired TRA radiologists Drs Rohner and Roller as well as Federal Way radiologists. In 1991 coverage was assumed by TRA. Lakewood Hospital converted to the new St Clare Hospital in 1990 with coverage by MIN. The old TB sanatorium, Mountain View Hospital adjacent to Puget Sound Hospital, closed in 1993 following 45 years of service.

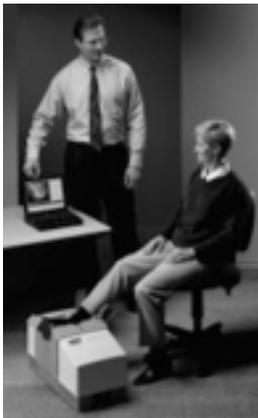


St Francis Hospital
1987



St Clare Hospital
1990

In the late 1980s various techniques were sporadically used for bone mineral density measurement including peripheral techniques and QCT. In 1988 the first dual photon absorptiometry was installed at St Joseph Hospital. In the mid 1990s the DPA was replaced by DEXA scanning and with the advents of Fosamax and reimbursement in the late 1990s the technology diffused rapidly in our community.



Early peripheral bone mineral density
techniques



Lunar DEXA Scanner

The first stereoscopic breast biopsy unit was installed at TRA in 1991. The picture below is the Good Samaritan Campus circa mid 1990s.



The first stereo breast biopsy unit installed in Tacoma in 1991



Good Samaritan Hospital
1990s

Tacoma Open MRI opened in 1997 as a partnership of both hospitals and both radiology groups in Tacoma within the TMI building. St Joseph Hospital outpatient clinic building was opened 1999.



Tacoma Open MRI
1997



St Joseph Outpatient Medical
Center 1999

In 1998 Drs Mike Dowd, Erik Elam, and Khai Tran joined TRA.



Dr Mike Dowd
Interventional Radiology



Dr Erik Elam
Body Imaging and MSK



Dr Khai Tran
Women's Imaging

In 1999 Drs Gordon Benjamin and Dr Shireen Khan joined TRA. The following year Drs Anthony Larhs, Howard Sun and Jana Fahmy joined TRA. Dr Jill Dobbins joined MIN in 2000 and Dr Katherine Choi-Chinn in 2001. Dr Dan Heller joined TRA in 2001.



Dr Gordon Benjamin
Interventional Radiology



Dr Shireen Khan
Pediatric Radiology



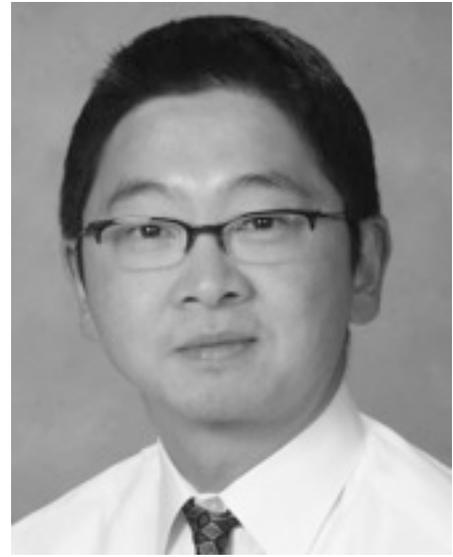
Dr Anthony Larhs
Nuclear Medicine



Dr Jana Fahmy
Pediatric Radiology



Dr Jill Dobbins
MSK and Emergency
Radiology



Dr Howard Sun
Interventional Radiology



Dr Katherine Choi-Chinn



Dr Dan Heller
Body Imaging

At the beginning of the 21st century the hospital campuses had grown considerably. The multicare campus had added the Centennial Pavilion in 1983, the Baker Building in the 1980s, Group Health tower in the 1980s, and the “L” wing or Philips Pavilion in 1994. Multiple outpatient clinical structures and parking facilities were also built.



Multicare Campus 2000



Clockwise Centennial Pavilion,
Baker Center, Group Health
Clinic, and “L”wing.



The St Joseph Hospital Campus had grown by adding multiple physician offices and outpatient centers over the previous years including the Physicians Medical Center, St Joseph Medical Pavilion, St Joseph Medical Clinic, St Joseph Outpatient Center, and Northwest Medical Offices.



St Joseph Hospital Campus 2000



St Joseph Medical Clinic



St Joseph Outpatient Center

In the early part of the century Good Samaritan Hospital added a new Rehabilitation Center, Childrens Center, Birth Center, ER, and Cancer Center.

Puget Sound Hospital closed in 2000 after more than a century serving Pierce County.

DIN merged with Mt Rainier Imaging to become MINW in the year 2000. Both MINW and TRA developed ourpatient imaging centers in the first decade of the new century. TRA opened imaging centers on Cedar St in Tacoma in 2002, in Gig Harbor in 2004, and converted an office in Lakewood to an imaging center. MINW opened imaging centers in Puyallup, Sunrise, and Bonney Lake.



TRA Tacoma-on Cedar



TRA-Lakewood



TRA-Gig Harbor



Puyallup Imaging Center
MINW



Surise Imaging Center
MINW



Bonney Lake Imaging
MINW

The first fixed site PET scanner in Tacoma installed at TRA Tacoma-on Cedar in 2002.



Phillips Allegro PET

2002 Dr Justin Yoon joins TRA and Drs Alan Pearson and David Davidson join MIN. In 2003 and 2004 Drs Barbara Blankenship, Londe Richardson and David Shook joined MIN. Dr Andrea Manzo joined TRA in 2004 and Dr Helen Shigemitsu in 2005.



Dr Justin Yoon
Interventional Radiology



Dr Alan Pearson



Dr David Davidson
Body Imaging



Dr Barbara Blankenship
Body Imaging



Dr Londe Richardson
Nuclear Medicine
Internal Medicine



Dr David Shook
Body Imaging



Dr Andrea Manzo
Women's imaging



Dr Helen Shigemitsu
MSK

St Francis Outpatient Center opened in 2004 and St Clare Specialty Center in 2005. In 2005 the Mary Bridge Children's Health Center was opened and two floor were added to the Centennial Pavilion at TGH/MBH.



St Francis Outpatient Center



St Clare Specialty Center

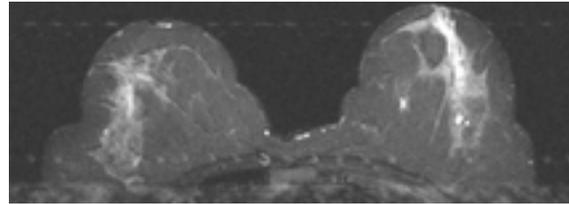
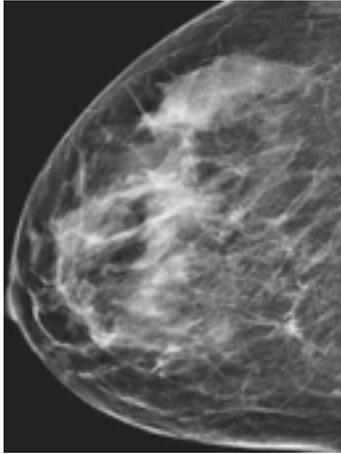


Mary Bridge Children's Health Center



TGH/MBH expansion

In 2006 digital mammography replaced the older units over the next two years. A dedicated breast MRI was installed at the TRA Cedar Center in 2006.



MRI of breast

Digital Mammography 2006

Three additional radiologists came to Tacoma in 2006. Dr Brian Kott to TRA and Drs Jonathan Kell and Jorge Medina to MINW.

Dr Kott Established the first Neurointerventional service in the south sound in the summer of 2006. Biplane technology was used initially at Tacoma General Hospital and was replaced the following year with state of the art Toshiba biplane units with flat panel technology at both TGH and SJH.



Dr Brian Kott
Neuroradiology
Neurointerventional
Radiology



Dr Jonathan Kell
Neuroradiology

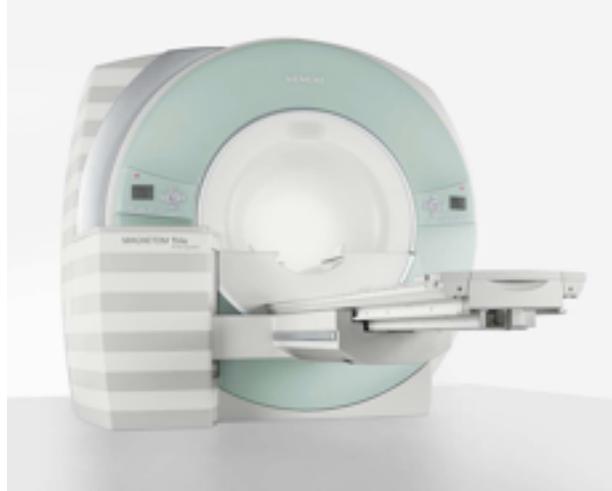


Dr Jorge Medina
Body Imaging
MSK

Further technological developments in Tacoma occurred in 2007 with the first 3T MRI being installed at SJH and the first PET/CT being installed at Cedar TRA office. CT and MRI developed rapidly since their inception with continuing improvements in resolution, coils, contrast agents, sequences, and speed.



Phillips Gemini PET/CT



Siemens Magnetom Trio 3T MRI

Enumclaw Community Hospital was merged with the Franciscan system in 2007.

There was a virtual flood of new radiologists arriving in Tacoma over the next three years. In 2007 TRA hired Drs Larry Tang, Amaya Ormazabal, Sam Lieu, Jason Allen, Charles Leusner, Anan Suresh, Joe Sam, and Aaron Zima. MINW hired Drs Ben Johnson, Rod Saxey, and Scott Walker.



Dr Larry Tang
MSK



Dr Amaya Ormazabal
Pediatric Radiology



Dr Sam Lieu
Nuclear Medicine



Dr Jason Allen
Neuroradiology
MD/PhD



Dr Charles Leusner
Interventional Radiology



Dr Anand Suresh
MSK



Dr Joe Sam
Nuclear Medicine
MD/PhD



Dr Aaron Zima
Neuroradiology



Dr Ben Johnson
Body Imaging
Cardiovascular Imaging



Dr Rod Saxey



Dr Scott Walker
Neuroradiology

In 2008 MINW outpatient imaging centers partnered with Multicare which were then renamed DINW.

Seven more radiologist were added in 2008. Dr Norman Levine joined MINW and Drs Doug Siler, Jeana Oh, Larry Park, Alison Nohara, Joon Song, and Xiaoming Chen joined TRA.



Dr Norman Levine
Interventional Radiology



Dr Doug Siler
Neuroradiology



Dr Jeana Oh
Breast and Body Imaging



Dr Larry Park
MSK



Dr Alison Nohara
Neuroradiology
Neurointerventional



Dr Xiaoming Chen
Breast and Body Imaging
MD/PhD



Dr Joon Song
Neuroradiology
Neurointerventional Radiology
MD/MSEE

St Anthony's Hospital opened in 2009 in Gig Harbor as did the consolidated breast center, The Carol Milgard Breast Center. The Milgard Pavilion opened at TGH which included an expanded ER, Mary Bridge Hospital expansion, clinics, cancer center, and the Heart Hospital.



St Anthony Hospital



Carol Milgard Breast Center



TGH Milgard Pavilion

There was a another large influx of new radiologists to Tacoma in 2009 With Drs Jigish Patel, Negar Knowles, Jason Jacob, George Wang, Bradley Fricke, Jeffrey Lin, Ted Sunidja and Jarvis Chen joining TRA.



Dr Jigish Patel
Body Imaging



Dr Negar Knowles
Cardiothoracic Imaging



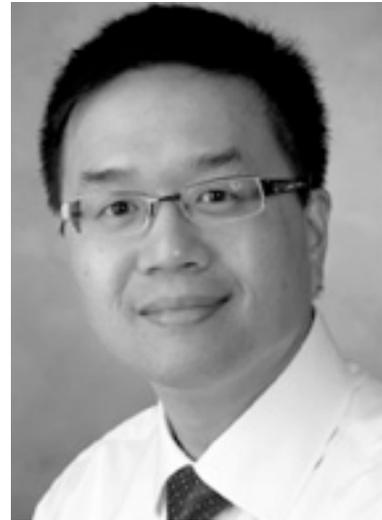
Dr Jason Jacob
Body Imaging



Dr George Wang
MSK



Dr Bradley Fricke
Interventional Radiology



Dr Jeff Lin
Nuclear Medicine
MD/



Dr Jarvis Chen
Interventional Radiology



Dr Ted Sunidja
Pediatric Radiology
MPH

In 2010 TRA opened, converted, or merged several imaging centers. TMI partnership ended and the building became TRA on Union and Tacoma Open MRI. TRA on Lily in Olympia opened merger with Northwest Radiology. Medical imaging on 1st in Federal Way opened as di Mercer Island Medical Imaging.



TRA on Union



TRA on Lilly



Medical Imaging on 1st



Mercer Island
Medical Imaging

New Radiologists coming to Tacoma in 2010 were Drs Amy Guttman and Germaine to MINW and Drs Dennis Wang and Randall Patten to TRA.



Dr Amy Guttman

Dr Germaine Johnson
Nuclear Medicine





Dr Randall Patten
Body Imaging



Dr Dennis Wang
Neuroradiology
Neurointerventional

In 2011 two new hospitals opened in eastern Pierce County. Good Samaritan Hospital extensive new addition in Puyallup and replacement of the Enumclaw Hospital with St Elizabeth Hospital.



Good Samaritan Hospital
2011



St Elizabeth Hospital



Dr Timnit Ghermay
Interventiona Radiology
MINW 2011

Modern radiology is miraculous and will continue to progress on an unexpected mathematical scale into the future. When I started my radiology career in the 1960s it was routine to ask the family for an autopsy at the time of the patient demise since so often we physicians did not have a clue as to the cause of death. Now there is little additional information to obtain by autopsy. Much of this progress has been because of the development of our field.

I hope that this history may be of interest to future generations of radiologists. I have attached a history written by Dr Frank Rigos in 1970 and the historical recollections of Dr Vern Larson. All this information would be lost to future generations if it were just placed in a box somewhere to collect dust. With the advent of the internet it can be available to all that might have an interest.

History of Radiology in Pierce County

By Vernon O Larson MD

Frank Rigos MD wrote a short history of Radiology in Pierce County in about 1962 or so. I have a copy of that history given to me by Gil Roller MD who is now deceased as is Frank Rigos. I will attempt to bring the history up to date as of 2007 and will include a copy of Frank Rigos's history to 1962 with essentially no change.

MY RECOLLECTIONS FROM JULY 1, 1962 TO THE PRESENT, July 2008

I joined Kenneth Gross MD in Radiology practice in Tacoma on July 1, 1962. Ken was a partner of Steve Sanderson MD until Sanderson's untimely sudden death in March 1962 at the rather young age of 56. Cause of death probably cardiac. This unfortunate occurrence made a position available to me. I was just finishing a Radiology fellowship in New York City at Columbia Presbyterian Medical Center. Ken carried on the practice alone from March to July by himself hampered considerably by an Achilles' tendon injury sustained while skiing at Crystal Mountain.

When I arrived in Tacoma July 1 1962 with a wife (Kit) and four children, Ken had two offices, one in the Medical Arts Building at 9th and Market and one in the Tacoma Medical Center at 11th and L streets. Hospital Radiology coverage was also supplied to Mary Bridge Children's Hospital, Lakewood General Hospital, the VA Hospital at American Lake, the Minor Hospital in the Medical Arts Building and the Morton Medical Center and Hospital. We performed both diagnostic and therapeutic radiology (radiation oncology). The therapy was done at the Medical Center office using a 220 kilovolt Picker ortho-voltage X-ray therapy machine. Radium was also available for intracavitary treatment of gynecological cancer.

The other radiologists in Tacoma and Pierce County in 1962 were Frank Rigos, John Flynn, Henry Maki and Bill Rohner. They covered radiology at St. Joseph's Hospital, Tacoma General Hospital, Doctor's Hospital and the county tuberculosis hospital - Mountain View, now Puget Sound Hospital. They also covered Western State Psychiatric Hospital and the Northern Pacific Beneficial Association Hospital which no longer exists. It was located fairly close to the present Puget Sound Hospital. They also had offices in the Medical Arts Building and the Tacoma Medical Center. Bernard Harrington MD and Al Sames MD also had an office in the Medical Arts Building but no hospital practice. Ray Islam MD was the radiologist for the Western Clinic located on K Street. The Western Clinic no longer exists having been swallowed by Multicare for expansion purposes. Ray Islam later went to Bremerton to practice and was replaced by Don Carlyle MD shortly after I arrived in Tacoma. Myra Vozenelick MD had an office practice in Lakewood. Joe Jarvis had a private office in Puyallup and covered radiology at Good Samaritan Hospital in Puyallup.

Note that Lakewood General Hospital started in 1961 by Dr. Laurie Skinner, Dr Richard Rich, Potter and Zabel. Harry Sanislo was the first administrator followed by Wilhelm. Lakewood General eventually sold to the Franciscans. A new hospital was built at its current site in Lakewood and named St Clare. The old hospital at 100th and Bridgeport Way was razed and replaced with a strip mall. A Starbucks occupies part of the old hospital parking lot. Mary Bridge Children's Hospital and Doctor's Hospital were folded into Multicare Medical Center along with Tacoma General Hospital. Doctor's Hospital was closed as an acute care facility. MBCH acute care beds, surgery and x-ray facilities moved into Tacoma General (Multicare)

Drs Kramer and Michelson had an office practice of Radiology in Puyallup starting at about 1970. Dr. Kramer eventually died after many years of practice probably of diabetic and cardiac problems. Dr. Myra Vozenelik died after multiple years of practice. She was a long term survivor of Hodgkin's disease. She had an office practice in Lakewood. Drs Rigos, Flynn, Harrington, Jarvis, Sames, Kramer, Gross, Wong, Rohner and Roller are all deceased. Dr. Henry Maki survives as of this writing.

In 1965 a group of physicians and dentists mostly from the Medical Arts Building developed an office complex and hospital at Allenmore at 19th and Union, having purchased the land from the Tacoma Elks Lodge. The physicians included Charles Galbraith, Bob O'Connell, Jim Mc Nerthney, Bill Rohner, Ken Gross, Ken Graham, Del Lambing, Max Brachvogel, Ted Baer, Bob Ferguson, Marion Larson and Ron Robbins, an orthodontist. The Minor Hospital which was located in the Medical Arts Building also moved and became Allenmore Hospital. The minor in Minor Hospital referred to minor surgery and had previously been located in the Washington Building. The bed capacity increased from 30 to 50 beds with the move to Allenmore. The first administrator was Carl Rasmussen. In about 1975 the Allenmore hospital was purchased by American Mediacorp and a new larger hospital built adjacent, Later, American Mediacorp was purchased by Humana. The Humana hospital was recently purchased by Multicare. The old Medical Arts Building was sold to the county for administration.

Gross and Larson became the hospital radiologists for Allenmore. Rigos, Flynn, Maki and Rohner also opened an office in the Allenmore office complex. About this time or shortly before Allenmore opened in 1966, Robert Whitney Jr. MD joined us as a transplant from Madigan Army Medical Center. He had trained at the University of Minnesota. Russell Sadler DO and Jerry Garret MD were associated with us briefly. Sadler went to Palm Springs and Garret went to Seattle with the Providence Hospital Group. About this time Sames left Harrington to join Joe Jarvis in Puyallup. Sames became ill and died shortly thereafter and Jarvis retired. The Good Samaritan Hospital became available to us. This required more manpower and Ray Pliskow MD joined us. He had trained in Detroit. Post training and the Viet Nam War had been associated with Ray Islam in Bremerton. Our group name then became Gross, Larson, Whitney and

Associates. We were tired of changing stationary and this name persisted for many years until Dr. Gross died of lung cancer at about age 76. The name then became generic as

Diagnostic Imaging Northwest and later changed again to Medical Imaging Northwest and I believe changed back again.

Radiology changed rapidly throughout my years in practice. Wet tank film processing gave way to automatic film developing. Standard fluoroscopy was replaced with image intensification and the radiologist no longer was burdened with having to wear red goggles for his eyes to accommodate enough to see anything on the rather dim fluoroscopic screen. Nuclear Medicine imaging procedures made its debut. Some of the nuclear medicine procedures were done by the radiologists and some by the Pathologists. Ultrasound or real time sonography gradually became an extremely useful modality particularly in Ob-Gyn but also for gallbladder studies among other things. Computerized Tomography (Cat Scans) arrived at Tacoma General Hospital in the form of an EMI unit which was good for heads only and extremely crude by today's standards. None-the-less it was major progress. Xeroradiography and film screen mammography for breast imaging slowly arrived on the scene and were extremely useful but along with everything else was time consuming for the radiologists. This of course required more radiologists for both our group and our competitors and we were constantly interviewing potential new members for the group. Bob Rich MD, Michael Campbell MD, Marty Graham MD, Todd Nelson MD, John Flood MD, Scott Carleton MD, Andy Levine MD, Zino Anderson MD, Dan Martin MD and Allison Reinbolt MD soon swelled our group to about thirteen or fourteen by the time I retired in 1993. Several names came and went from our group. Tacoma Radiology Associates (TRA) became the name of the Rigos, Flynn, Maki and Rohner Group and they added and subtracted radiologists even faster than us. Roller, Jackson, Barnes, Kenny, Bleiwies, Bourdeau and Lazar were the more permanent names. The radiologists who left our group included Garret, Sadler, McMillan, Gutenecht, Wasco, Smith, Cooley, Rich and Kersey.

Nuclear Magnetic Resonance, later renamed Magnetic Resonance Imaging made its grand entrance to Tacoma in 1986. We contracted for the first unit into Tacoma. This was a Technicare unit on a trailer and we used it for several months. Technicare was owned by Johnson and Johnson. General Electric bought Technicare from Johnson and Johnson and we elected to discontinue the contract since we felt that Technicare would disappear. General Electric also made an MRI machine. We then acquired a Disonics unit later to be bought out by Toshiba. We arranged for this unit to come Good Samaritan Hospital one Sunday for us to try out to see if it indeed was going to function as expected. I was on Radiology call and reading X-rays and doing procedures that day at Good Samaritan Hospital. Since we had no guinea pigs to try it on, I played guinea pig and stuck my head in the unit. I finished the study and went back to reading x-rays. Our partner, Andy Levine MD, came out that day to see if this new modality was actually going to work OK. He brought the images into the x-ray department, came in and closed the door and asked if there was anything wrong with me health wise. I said no. He then put the multiple images on the view-box in front of me. The images were flagrantly abnormal. And with the multiple cuts ones initial thought was multiple metastases. I said a few bad words and studied the

images a while and concluded that since I felt OK that the lesions had to be benign and therefore were meningiomas. They were two in number, one on each side approximately five and seven centimeters in diameter. I promptly took

the rest of the day off. In retrospect, my main symptom was that I could no longer hit a forehand in tennis. I thought I was just getting old. I was 58. Surgery was scheduled promptly at Virginia Mason in Seattle about a week after diagnosis for the symptomatic lesion and about three months later for the larger but asymptomatic lesion on the right side. The right sided lesion required a large graft of fresh irradiated dura from a cadaver and I am happy to say that the surgery was successful and I returned to radiology practice in about six weeks. Tennis was a bit slow in returning but served as good physiotherapy. My forehand eventually returned but not quite as good as it had been previously. The reason for the tennis forehand problem was a neurological sign called pronator drift which was caused by edema from the left sided tumor.

I am extremely grateful for modern medical diagnostic and surgical procedures. Jim Raisis MD performed both surgeries at Virginia Mason Hospital. I could have had the surgery in Tacoma but in the event of a bad result I did not want to burden any of my personal friends.

Subsequently, MRI machines became ubiquitous and improving daily along with the rest of the armamentarium of the medical community. It is incredible that the marriage of radio waves and giant super cooled magnets along with increasingly sophisticated computers can yield such astonishing images of the human body. All this is done without the hazard of ionizing radiation.

In my early years in Tacoma virtually all of the cardiac diagnostic special studies were done at Mary Bridge Children's Hospital. This was probably because of superior equipment at that time. MBCH had image amplification fluoroscopy, sixteen millimeter cine-radiography plus a biplane cut film Schoenander. Video tape recording arrived shortly as well as 35 mm cine. Initially it seemed that most of studies were on patients with congenital heart disease and rheumatic heart valve problems. Eventually coronary arteriography became commonplace once the techniques were learned.

In time coronary artery bypass surgery and more effective valve replacement surgery became possible. There were a number of fits and starts as new cardiac surgeons, invasive cardiologists and vascular surgeons arrived on the scene.

Radiological special procedures –arteriography, venography, cholangiography, needle biopsy, tumor ablation, abscess drainage, all these and more became commonplace and as expected there were some turf battles. Since the plethora of diagnostic procedures used up more and more of the time of the radiologist, many more radiologists were needed in Tacoma and the surrounding community. Radiological coverage in the community was 24/7. The Rigos, Flynn, Maki and Rohner group and the Gross, Larson and Whitney group continued to add radiologists, many with subspecialty training. Many came, some left and today, 2008, the groups have a combined

total of about seventy five radiologists. The Rigos, Flynn, Maki and Rohner Group eventually became TRA, Tacoma Radiology Associates. After brief discussion they declined to name it Radiology Associates of Tacoma for obvious reasons. After Ken Gross retired,

the Gross, Larson and Whitney Associates group became the more generic Diagnostic Imaging Northwest and later renamed Medical Imaging Northwest. DIN became MIN.

Ken Gross retired 1987 and died in 1996 of metastatic cancer of the lung at the age of seventy-six.

Emergency rooms changed remarkably over the years eventually to be staffed by dedicated trained ER physicians rather than rotating all staff physicians through the ER regardless of specialty.

The advent of computerized tomography and quality real-time sonography led to a major need for radiology coverage for the hospital emergency rooms. The advent of the gastroenterologists and endoscopy in Tacoma decreased the need for barium gastrointestinal studies but did not completely eliminate them.

Radiation Therapy in Tacoma in my early years was very crude by current standards. We treated cancer and some benign conditions with an orthovoltage Picker machine which operated at a maximum of 220 kilovolts (220,000volts). Radium was available for gynecologic cancers and some head and neck cancers.

There was also limited X-ray therapy at Tacoma General and St Joseph's Hospitals also using orthovoltage machines. Eventually we obtained a Cesium 137 unit at Allenmore and later a 4 mev linear accelerator. This unit was top of the line in the Northwest briefly.

About this time 1970 or so, Howard Wong MD and Mike Soronen MD opened a freestanding radiotherapy unit at Jackson Hall across from Tacoma General. The hospital then discontinued radiotherapy in their facility. The unit at Jackson Hall was a rotating Cobalt 60 unit. They later added an 18 mev linear accelerator about the same time that we did at Allenmore. In the late 1980s John Gallucci MD a fully trained radiation oncologist arrived from Portland and joined our group. I then backed away from radiotherapy to do straight diagnostic radiology. Dr. Gallucci eventually became independent from our group. Later when Multicare bought Allenmore Hospital, radiotherapy at Allenmore ceased since by this time Multicare had opened a new radiotherapy unit and cancer center at Tacoma General. The equipment was a 6 and also an 18 mev (18 million volts) linear accelerators. Dr. Gallucci then became the radiation oncologist at Tacoma General. Wong and Soronen along with Tom Jones MD also opened a free standing radiotherapy office in Puyallup near Good Samaritan Hospital but not associated with the hospital. St. Joseph's Hospital has obtained a dedicated cobalt 60 unit (gamma knife) for brain tumors and some other brain conditions.

When I arrived in Tacoma in 1962, dermatologists used low energy X-ray therapy and Grenz Rays for some skin cancers and other conditions. Today, I doubt that any current dermatologists are using radiotherapy. Prior to World War II it was common to use low energy x-ray for many benign skin lesions such as acne and eczema. We occasionally treated plantar warts and calcific

tendonitis with 150 or 200 kv x-ray when nothing else worked. (doctors and family members were our most frequent patients.) We also treated keloids post op with low energy X-ray and post-op pterygia with beta radiation using a strontium 90 applicator. Hyperthyroidism was treated with I 131

(radioactive Iodine) and occasionally other radioactive isotopes were used for various conditions. We treated many basal and squamous cell skin cancers with radiotherapy. These cancers were usually lesions over the nasal or ear cartilages in very old bad surgical risk patients who had limited life expectancy. Cosmetic results were usually quite good.

A major improvement in cancer therapy occurred during my thirty-one years in practice. Dr. Gale Katterhagen declared himself a medical oncologist. He started tumor boards at Allenmore and Tacoma General. In time I inherited the chairmanship of the tumor board at Allenmore from Dr. Katterhagen as he increased his presence at Tacoma General. I also chaired the tumor boards at Lakewood General and Good Samaritan hospitals. There is no question in my mind that cancer management was much improved by discussion of current cases by medical oncologists, pathologists, radiation therapists, diagnostic radiologists, gynecologists, internal medicine specialists and family or general practitioners. Note is made that there had been Clinical-Pathological conferences for years given by Dr. Charles Larson the pathologist at Tacoma General and others but for the most part they were not necessarily related to open discussions of current cases in the community and with recommendations for management by surgeons, medical oncologists and radiation oncologists.

Newer procedures now available include PET scanning (positron emission tomography). A dedicated breast imaging facility is now available in Tacoma on South 19th. Breast imaging in the community is also available elsewhere.

The following is a history of Radiology in Pierce County written by Frank Rigos MD undated but probably written around 1962 or so.

The Fannie Paddock Memorial Hospital was dedicated in Tacoma in 1882. In 1886 a young man named George Smith, was brought into the emergency room. He had been injured in a mill accident. George Smith was from Monroe, Michigan. He had worked his way west ending up in Tacoma. While recuperating from his injury he found that he liked helping patients and the hospital environment. He stayed on as an orderly working in the emergency room or in surgery. In 1895, the Fanny Paddock Memorial Hospital started a school of nursing and George Smith was the first to apply and graduated in 1897. At that time nurses worked a twelve hour shift or more depending on the presence of typhoid fever or some other epidemic.

In 1901, the Fannie Paddock Memorial Hospital purchased an x-ray machine for \$600.00. George Smith did all the x-ray work for the next twenty two years. In the beginning, it took several hours to process an x-ray glass plate. In 1909 the hospital was forced to buy a new x-ray coil that cost \$500.00. George Smith had no relatives that he mentioned and he lived at the hospital. At his death his estate was left to the hospital.

In 1923, the hospital now Tacoma General, hired Dr. E. D. McCarthy, formerly with Peter Bent Brigham Hospital of Boston. In 1923, 2000 x-ray exposures were made. Later the hospital

bought an x-ray machine a cost of \$10,000.00 that operated at 300,000 volts. It was to treat cancer. Dr. McCarthy left Tacoma General Hospital to become the radiologist at Pierce County Hospital.

Dr. McCarthy was followed by a Dr. Hart. Dr. Hart was an unusual individual to put it mildly. Dr. Hart resigned in 1933 and moved to Idaho. Dr. Milo Harris came to Tacoma General Hospital from the Mayo Clinic and stayed until 1936 when he moved to Spokane.

Dr. B. D. Harrington, who had trained at the University of Michigan, arrived in 1936. In 1940, Dr. Al Sames from the same institution joined him and they did the work at the hospital and opened an office in the Medical Arts Building. They practiced together for a short while before both were called into the Armed Forces. I came to Tacoma General in May 1943 and did the work at the hospital and the office having reached a partnership agreement with Dr. Harrington.

Dr. Harrington returned from the Army and we practiced together for a short while before the hospital decided that we could not do the work at the hospital if we retained the private office. There was not enough work at the hospital to support two radiologists. Dr. Harrington being the senior chose the office and I was left with the hospital. Dr. Harrington acquired the Doctor's Hospital and called back Dr. Sames who was in Arizona. So I was left alone at the hospital.

St. Joseph's Hospital was dedicated in 1891. They obtained x-ray equipment sometime after 1910. Dr. Raymond Duncan Mac Rae came to St. Joseph's Hospital in 1919. He was the first radiologist in Pierce County. Dr. Mac Rae grew up about forty miles from Madison Wisconsin. He was a large man with big hands and an agreeable personality. When he was a young man he excelled at baseball, basketball and football. He played in a football game between branches of the armed services that he called a precursor to the Rose Bowl game. At any rate he was stationed at Camp Lewis (now Fort Lewis) during World War I and got interested in x-ray at the camp. He said no one else was interested. Dr. Mac Rae was an expert at fractures and very often he would become impatient when some general practitioner couldn't reduce a fracture. He would bring the patient into the x-ray department and would reduce the fracture under the fluoroscope and as a consequence lost parts of three fingers.

He came directly from Camp Lewis to St. Joseph's Hospital and a few years later opened an office in the new Medical Arts Building. Dr. John R. Flynn had been in general practice in Tacoma before the war. His father was a doctor and his mother was a nurse at St. Joseph's. When World War II started he entered the navy and was a doctor on Guadalcanal Island during the United States first invasion campaign in the Pacific. Following the war he took a residency at the University of Illinois. While in the navy he met his future wife, Patricia Finley, of Olympia. After residency he settled in Longview and Kelso where he did the work at both hospitals. However, both he and his wife wanted to come back here so in 1949 or 1950 he joined Dr. Mac Rae at St. Joseph's and opened an office in the Tacoma Medical Center (South 12th and L).

About this time I was irritated at only having ten days of vacation in five years—and even the ten days required me to reread all of the films. So we met and formed a partnership, Dr's Mac Rae, Rigos and Flynn. Tacoma General Hospital was quite upset, but though they threatened to fire me, did not. Dr. Mac Rae retired in about a year, so Dr. Flynn took over as head of x-ray at St. Joseph's. About this time Dr. McCarthy died and we inherited the county hospital. We immediately hired Dr. Maki and he was followed by others including Dr. Gross. Dr. Gross stayed

about a year and then left to join Dr. Sanderson. Dr. Sanderson had taken over the practice of Dr. Fishel in the Medical Arts Building. Nothing is known about Dr. Fishel. After Dr. Fishel died, Dr. Sanderson hired

Dr. Kegel who finally left to go to Aberdeen. Dr. Joe Jarvis joined Dr. Sanderson but left to open an office in Puyallup. Dr. Sanderson then teamed up with Dr. Gross.

Dr. Sanderson died within a few years (March 1962 at the age of 56). Dr. Gross took over and subsequently has added several hospitals and partners.

Dr's Rigos and Flynn continued for several years adding partners and finally Dr. Flynn left to open his own office. The name of the group then changed to the Tacoma Radiological Associates. This is in essence the history of radiology in Pierce County. (up to about 1962)

I would like to thank Mildred Bates, RN, for her book "House of Mercy", and Jack McDonald, RT for his time and effort doing research.

Frank Rigos MD

References to radiologists and radiology departments in the Pierce County Medical Society bulletin from April 1931 to 2009

April 1931, PCMS Tacoma General Hospital Dr Hart, roentgenologist of Tacoma General Hospital concluded the chest clinic at the Sumner high school by making x-ray films of the chests of a number of the students.

September, 1931 TGH during the summer the x-ray department at the Tacoma General Hospital has been remodeled. This made it possible to have a room devoted entirely to GI work where the newer methods of examining the pylorus and duodenal cap for ulcer and small, pedunculated tumors are in use. Beg in Germany and Akerlan in Sweden first developed these compression methods of diagnosing peptic ulcer; only recently have they invaded the US. New mastoid and sinus appartatus are also being installed.

Dec 1931 Dr Alan Hart, TGH radiology, is attending a meeting of he RSNA at St Louis, MO.

Jan 1932 Dr A. L. Hart returned December 10 from St Louis where he attended the annual meeting of RSNA.

Jan 1932, note on medical economics same month—Gross income for GP, \$8, 766, for partial specialists \$13, 111, and for complete specialists \$15, 929. Average overhead 36%, net incomes \$5, 689, \$7994, and \$11, 178 respectively. Avg net for dentists \$4, 875.

Jan 1932, Dr. Alan Hart wrote a great article in the Nov 1932 bulletin of <l>Romance of Modern Medicine</l>. It was two part and about the discoveries that had been made in medicine particularly infections. Excellent article.

Jan 1933, Dr Milo T. Harris, a recent fellow at the Mayo foundation in Rochester, Minn, whose work there was restricted to diagnostic and therapeutic x-ray in conjunction with the application of radium, took charge of the x-ray department at TGH, Jan 1, 1933. He will be employed full time in the duties of this department. His recommedations from the head of the various departments in which he worked have been uniformly excellent.

Feb 1933 Milo T. Harris gave a talk on arteriography to the surgical club.

March 1933 Milo Harris on vacation spending his time Driving to the east.

Dr. Milo Harris, roentgenologist at the TGH, has been attending the combined meetings of the ARRS, RSNA, and the American Radium Society in Chicago. He also will visit old friends at the Mayo Clinic before returning.

Dr. C.R. Fischel is in Chicago attending the combined radiology meeting. Dr. Fishel intends to visit his old home near Columbus, Ohio, before returning home.

Pierce County Medical Society roster Oct, 1933, Charles R. Fischel, Medical Arts Bldg. , Raymond D. Macrae, Medical Arts Bldg, Harris not listed.

Jan 1934 Dr Milo Harris gave a talk to the PCMS on roentgenological diagnosis of diaphragmatic hernia.

April 1934 Dr Milo Harris gave a talk to the surgery club on the demonstrations of gastro-intestinal roentgenography.

PCMS code of ethics:

- 1) no paid advertising
- 2) new doc can announce his practice, location, and phone number for one month. 3) following long absences doc can do #2 for three days.
- 4) can announce change of address or phone number.

May 1934 Dr and Mrs Milo T. Harris have returned from a delightful vacation through California, going by boat to San Francisco and then motoring to Palm Springs. While in Palm Springs they visited Dr Eber Kanaga, who is progressing very nicely. They also visited Boulder Dam and Crater Lake.

May 1934 the Tacoma General Hospital has installed one of general electric x-ray corporation's new x-ray protected therapy tubes. This is the first installation of its kind on the pacific coast. The old deep therapy (which was the first on the coast) had to be remodelled by replacing the control stand and meters and making use of only , the high tension transformer and rectifier. The new tube is rated at 220, 000volts at 30 millimeters. The construction of the tube is unique in the center shielded portion is at ground(zero) potential and has five millimeters of lead incorporated in it for x-ray protection. This grounded center portion allows the use of metal cones to cover the treatment area without danger of shock to the patient. The high current input into the tube is made possible by an oil cooling system which forces oil at 75 pounds per square inch pressure through the anode, thus carrying off the excess heat which would otherwise melt the anode.

There are two very distinct advantages to the new installation. The first is that of decreased time of the treatment. With the old apparatus, a full treatment of high voltage took 70 to 80 minutes. With the new tube the time is 19 to 20 minutes. Due to this the patients are not complaining so much of nausea following the treatment. The second advantage is that the odor (ozone and an oxide of nitrogen) which the patients complained of so much about in the therapy room is completely gone. Formerly an occasion a patient became so nauseated from this odor before treatment could be started as to require his removal from the room.

Dr Harris has just finished the installation of a constant reading ionization system where by the amount of x-ray from the tube can be read off a scale on the instrument board while the treatment is going on. The so called chamber for the ionization is permanently fixed in the master cone of the tube. A supply of the direct current of about 320 volts is fed to alternate plates of the chamber and the small current which the x-rays cause the air to carry is collected by the remaining plates. This current is run to a sensitive galvanometer behind the instrument board which reflects a light beam which varies directly as the amount of x-ray, onto a scale on the instrument board.

The ionization system is of great service in checking the output of the tube (dose of x-ray) it is of greater service in checking the filters, for should the filter be accidentally left out of the tube, the instrument would immediately detect it and there by possibly prevent a serious burn.

Dr Harris would be glad to demonstrate the new apparatus and ionization system to any of the doctors who are interested in seeing the latest type of x-ray equipment.

Sept 1934, TGH, Bernard Daniel Harrington M.D., director of the radiological department, was instructor in the department of roentgenology at the university of Michigan. Formerly he was

director of the department of radiology at methodist hospital in indianapolis and assistant in the department of radiology at the university of indiana. Dr Harrington fits into this department perfectly and thoroughly meets with the approval of the staff doctors. He devotes his entire time to this hospital.

Sept 1934 the 115 mgm of radium which has been owned by the Tacoma radium society was purchase D by Tacoma General Hospital in June of this year. In addition , 20 1 mg platinum-iridium needles were purchased by the hospital, making a total of 135 mg. A room for the surface application of radium has been added to the radiological department. This radium is available to the other institutions of Tacoma.

Oct 1934 obituary of George Smith, first x-ray tech in Tacoma
"old George" no longer occupies room 122 at the hospital, no longer makes his way up and down the corridors, greeting doctors and nurses in his customary way. It was indeed a sorrow to hear of his passing, and yet the sorrow was mingled with gladness in that George would no longer have to suffer. He would have been 77 years of age December 7 and had lived a busy life of service. To quote from the foreword written Mr cumminghs for the annual published by the 1934 graduation class: "to George Smith, our first graduate, well loved and oldest of our employees, we pay the tribute of our sincerest appreciation for a lifetime of unselfish service." " he is proud of the distinction of holding number 1 diploma from our training school(the first and only man to receive such a diploma) and after nearly half a century in his chosen field "old George", as he is lovingly know to us all still takes an eager interest in every activity of the hospital which he has watched and served through all the phases of its history for forty eight years."

Oct 1935 PCMS members

Charles Fischel, MedArts, Raymond D Macrae, MedArts, not listed McCarty, Harrington, and Harris.

Dec 1935 Dr B D Harrington , roentgenologist , returned Oct 16 from a trip east by plane. Gave talk to PCMS on bone tumors.

Jan 1936 Dr Barnard Harrington. Roentgenologist, at TGH just returned from a christmas vacation spent in and around hollywood.

Feb 1936, SJH, Macrae on membership comm of PCMS

Mar 1936 Dr. C R Fischel gave talk to PCMS on x-ray diagnosis of pulmonary tuberculosis in children.

May 1937 TGH new x-ray equipment with bucky table, rotatin anode and accessories.

Sept 1937, SJH, Dr Macrae was with a group of doctors at point Lawrence on orcas island fishing.

Oct 1937, TGH a demonstration of x-ray films was prepared for the fair by Dr B D Harrington, director of radiological department.

Nov 1937 Dr B D Harrington, radiologist, has just returned from the international radiological congress in Chicago. This is the fifth congress of its kind and the first time it has been held in the United States. Thirty nations were represented. Dr Harrington states that the next congress is planned for 1940 in Berlin.

Feb 1938 John R Flynn was elected to membership in the PCMS at its meeting Jan 11, 1938,

May 1938 minutes from the first meeting of PCMS Aug, 1888, were reproduced.

Sept 6 1938 first medical staff meeting of TGH. Dr B D Harrington was appointed general program chairman.

Oct 1938 membership roster PCMS, C R Fischel, MedArts, John R Flynn, Washington building, B D Harrington, TGH, R D Macrae, MedArts

Oct 1938 Dr B D Harrington is attending the radiological convention in Atlantic City.

Nov 1938 C R Fischel was on the public health council of PCMS.

Dec 1938 reprint of medical fees discussion. Fees for x-ray and other specialized services: Many people complain about the cost of these items. Some people say, "it's pretty soft to snap a picture and then say, \$10.00, please." however if the work is such an easy thing, it's a wonder more doctors don't take it up. but there's a rub in it. The cost of diagnostic and therapy machines for x-ray, not forgetting radium, amounts to thousands of dollars. The depreciation and the cost of maintenance is great and the years of experience to successfully operate the equipment are many. Then, too, the specialist in x-ray, physiotherapy, electrocardiography, etc does not get paid for every case. If he is paid for one out of two or three he is lucky.

Sept 1939 Macrae now on entertainment com, .

Oct 1939 Charlie Larson became chief of pathology and they began the first tumor board run by Charlie and B D Harrington. On Monday, September 25, the first weekly combined pathologic and radiologic conference was conducted jointly by Drs Charles P Larson and B D Harrington in the assembly hall. These conferences are designed for the interns at TGH and the intern and resident staff of the Pierce County hospital and to those of the medical profession who are interested are cordially invited to be present. These meetings will be held each Monday from 2pm to 3pm. Material presented will include the interesting surgical and autopsy pathological specimens together with microscopic projection of the corresponding slides and any radiologic work which may have been done on the respective cases.

Nov 1939 C R Fischel has recently installed a new quarter million volt radiological unit with an oil immersed tube which makes it shock and ray proof. This machine, we are informed, is noted for its efficiency in modern x-ray therapy. We congratulate Dr Fischel and hope he doesn't have to sell his boat in order to pay for it.

Sept 1940 PCMS meeting Dr Harrington then presented some studies on carcinoma of the breast. He reported eighty eight patients seen at TGH 1930 to 1935. His figures showed that surgery alone gave the most five year survivals. He brought up the question of preoperative

radiation and felt that it should be given an intelligent trial, since surgery and postoperative radiation was not as good as surgery alone in this series of cases.

Nov 1940 Bernie Harrington is back from another trip, this time to California. This guy is getting to be as much of a tripper as Ben Terry.

Feb 1941 Dr Stevens S Sanderson, formerly radiologist of the city hospital, of Binghamton, New York, is now associated with Dr Fishel.

Mar 1941 Charlie Fishel is now able to be up in a chair for a short time twice a day. Business as usual at the office with Stevens Sanderson in charge.

May 1941 report of the nominating committee were the nomination of Dr R D Macrae as president elect. Dr Macrae then rose and stated that he had not been consulted before his name was placed in nomination for president elect. He stated that he did not care to be a candidate for that office and would refuse if elected. The secretary was instructed to inform the chairman of the committee no 1 that he should secure another candidate for president elect.

Sept 1941 the scientific program was then opened by a paper on "certain reasons for failure of routine cholecystography," by S S Sanderson. Dr Sanderson reviewed the route of the dye from its oral administration to its concentration in the gall bladder. He then discussed a series of cases on which routine cholecystograms were made. It was brought out that in certain disease conditions where there is no gallbladder disease a routine cholecystogram may be falsely positive. Dr Sanderson also discussed numerous series of lantern slides illustrating many of the reasons for failure to obtain accurate findings. At times the many sources of error must be evaluated by the attending physician to obtain a true picture of his patient.

Oct 1941 Dr R D Macrae then gave a paper on "the pitfalls of dental roentgenography." He described the anatomy of the teeth and the mandible and maxilla in relation to interpretation of dental x-ray. He also described various types of dental lesions and their appearance on the x-ray film.

Nov 1941 Dr A A Sames has been approved for transfer into the PCMS.

Feb 1942 Steve Sanderson has bought a house at north 7th and D, just around the corner from the Jess Reads.

Mar 1942 the Charlie Fishel's are homeward bound from Florida, now at New Orleans. They hope to be home in May. He is recovering from his illness.

1942-1943 PCMS committees scientific work B D Harrington, entertainment R D Macrae, both also trustees and R D Macrae was vice president. In Nov 1942 Harrington no longer listed.

Nov 1942 Major Bernie Harrington left for Las Vegas, Nev to an air base. He took his book of telephone numbers with him, the old stingy.

Dec 1942 Dr E D McCarty is not only doing the x-ray work at county hospital but also operating Dr Harrington's office in the Medical Arts Building.

Jan 1943, PCMS officers

vice president R.D.Macrae, trustees R.D.Macrae, business bureau Macrae, entertainment Macrae

Feb 1943, SJH staff meeting talk by Macrae, roentgenologic diagnosis of ulcer.

Feb 1943, We have a nice letter from Bernie Harrington on the stationery of the air force gunnery school, Las Vegas, Nevada. Wonder why this lad has to study gunnery, always thought he was an x-ray man. Its slightly reminiscent of the victory in the gona area, in the Solomons. Somewhat of a urological rings, as it were Bernie writes, "my letter would be incomplete if I failed to acknowledge the kindness and thoughtfulness of you men prior to the entry of many of us into the armed forces. I am certain few societies were as considerate. It'S all right, old-timer, we expect to look after our own.

Feb 1943, lieut.. John R Flynn is with the marine aircraft wings, naval air station, San Diego, California. He expected to go to the Mojave desert marine base about the middle of January for training leading to flight surgeon after which he hopes to acquire enough experience to entertain us when he returns to Tacoma. Good luck, Johnny, we know you can do it.

Feb, 1943 the application for the membership in the society for Dr E.D .Macarty was read.

Feb 1943 January 27th, lieut.. John R. Flynn, U.S.N.R. Was married to Miss Patricia Phillips, of Olympia, in the Joan of arc chapel, Las Vegas, New Mexico.

April 1943 Macrae nominated for business bureau trustees.

Sept 1943 John R Flynn was made a lieutenant commander on July 1. A recent cablegram indicates that he is probably in Iran.

Sept 1943, Major Harrington happily situated at Greenville, S.C.

Jan 11 1944, F. J. Rigos gave a talk to PCMS on x-ray therapy of breast tumors. x-ray therapy of breast tumors, by F.J. Rigos. Dr. Rigos opened his paper with a discussion of recent experimental work in various forms of cancer in experimental mice.

Mar 1944, the Charlie Fishels are wintering in Arizona. Pretty soft, being a so-called invalid, with an insurance company to take care of the bills. Pretty soft, indeed.

Oct 1944, Major B.D. Harrington writes from his station in Florida of plans to attend the meeting of the American Roentgen Ray Society in Chicago. He does not complain so loudly as heretofore about the Florida climate and is apparently becoming acclimated.

PCMS Nov 1944 Rigos takes part in discussion on intestinal obstruction.

Jan 1945, PCMS meeting Drs brown and Rigos discuss intervertebral disc.

Jan 1945, PCMS doctors in service , Major Harrington B.D., A.A.F.Hospital Drew field, Tampa, Florida. Lieut commander Flynn Jr U.S.Naval hospital, Sand Point, Washington.

Feb 1945, nominating committee #1, F.J. Rigos, chairman

Feb 1945, Bernie Harrington paid a recent visit to Tacoma and has now returned to his large obstetric practice in Carolina. The lad was looking chipper and handsome as ever.

April 1945, reference to "these mysterious rays, "by Allan L. Hart M.D., harper and brothers, New York, \$2.75. The story of the x behind the rays . Fascinating reading, telling in simple language the actual processes of x-ray, radium and ultraviolet therapy. Dr Hart is remembered as an excellent teacher and a brilliant student.

Mar 1945, paper presented on hemoptysis by Dr Northrup and discussed by Drs Sanderson and Rigos.

May 1945, Dr. Frank J. Rigos spoke to the Tacoma Kiwanis club April 10th in the interests of the current Cancer Prevention Drive.

April 1945, Dr Rigos made a plea for consideration of the Cancer Committee Drive which is in progress at the present time. Also F.J. Rigos elected trustee of PCMS.

Sept 1945, lieutenant colonel, B.D. Harrington is stationed at the field hospital at Drew field, near Tampa, Florida.

Oct 1945, article celebrating the 50th anniversary of the discovery of x-ray.

Nov 1945, it isn't every doctor who can have his scientific efforts recorded in a foreign medical journal. An article on x-ray chest findings in a large number of Draftees, by S.S. Sanderson was reprinted in one of the most widely read Spanish journals published in south america.

Dec 1945, Dr. S.S. Sanderson presented two case reports from the Indian Hospital. One a hypernephroma removed in 1943 with metastasis to the lung and bones.

Mar 1946, Dr. Rigos discussed the administration of lipiodol in x-ray diagnosis.

Sept 1946, a joint discussion of ulcerative colitis included x-ray appearance by Dr. Rigos.

Sept 1946, Chris quevli has turned into a fisherman. On a recent expedition up the Quinault river with Rigos, Hansen and Larson, he walked away with all the honors for the most fish, the biggest fish and the first fish. Nice free trip, Chris. In addition he was the only one the Indians would talk to.

Oct 1946, those people who live at the Rigos home are still eating from the fish he caught in the Columbia on a special mouse bait. Anyone desiring information on this special bait should contact Frank.

Nov 1946, editorial against socialized medicine lists the health facilities in Pierce County, white shield home, Northern Pacific Hospital, Tacoma General, St Joseph, Western State Hospital, Pierce County tb sanitarium, the ozanam home, old soldiers home, veterans hospital American Lake, Cushman Indian Hospital, marine hospital in Seattle, Madigan hospital, county health department, city health dept, public health nursing assoc., state department of social security division of blind, voc rehab. Pierce County medical bureau, Western Clinic, northern pacific group, smelter system and the dupont employees. Toa, junior league, Tacoma blood bank, cancer clinic and Lions Club.

Nov 1946, Macrae report that the snow was so thick in Dakota that they could not even see the birds.

Nov 1946, Rigos reports that the Klotts-Larson fixative for tissues is the best herring preservative on the market. He got a salmon on a three months old herring the other day. No new progress reports on the mouse except that it is not working so good right now.

Nov 1946, Dr. B.D. Harrington made an announcement concerning the community chest.

Jan 1947, Dr. Frank Rigos announced the joint meeting of the medical society and auxiliary to be held at the top of the ocean on Feb 24, . The program including a cocktail period, dinner, entertainment and dancing. Tickets are now on sale at \$3.00 each.

Mar 1947, PCMS entertainment and neoplastic comm Dr. Rigos.

Mar 1947, Dr. Albert Sames discussed the x-ray findings in brucellosis.

Apr 1946, Dr. B.D. Harrington elected trustee of PCMS.

Apr 1947, membership roster of PCMS, Charles Fischel retired, Bernard D Harrington, MedArts, 1414, Elba D. McCarty, county hospital, Robert D. Macrae, MedArts, SJ , 1514, Frank Rigos, TGH, Albert A Sames, MedArts, 1414, Steven Sanderson, MedArts, 522.

Oct 1947, Doctors Hospital announces with practically all new equipment, the x-ray department is now available for all forms of x-ray service including deep x-ray therapy.

Oct 1947, Dr Rigos attends a refresher course at Univ. of Oregon on diagnosis and treatment of malignancies. Rigos is part of the cancer detection clinic in Tacoma.

Nov 1947, Dr. F.J. Rigos speaks on x-ray treatment of benign conditions.

Nov 1947 the secret pass-word and grip got big play as the Mayo fraternity gathered at Rochester for the biggest reunion ever. S. Herrmann, Rigos, and Vadheim represented Tacoma.

Nov 1947, TGH staff meeting , Dr. Rigos gave talk on x-ray examination of skull contents.

Jan 1948, Dr Rigos gives lecture to internes on "common errors in x-ray interpretation."

Dec 1947, Dr. Harrington reported to the society on the state trustees meeting of November 16. He stated that the indemnity program had been discussed and recommendations made that it be instituted by the local bureaus as desired.

Dec 1947, Dr. Rigos then announced that there would be a joint dinner meeting with the ladies at the top of the ocean, January 26 at 6:30 P.M. The cost would be \$3.00 per person and be semiformal.

Dec 1947 Dr. Carl Heller assistant professor of physiology of Oregon gave a talk on thyroid and stated that x-ray therapy and radioactive iodine therapy had been replaced by newer therapies, I.E. Propylthiouracil

Mar 1948 program at Medical Arts Building, x-ray studies in neurological lesions F. J. Rigos, Minnesota M.D., post grad Mayo, came to Tacoma 1943. Diplomate ABR, heart disease roentgenologically considered, S.S. Sanderson M.D., graduated Univ. of Michigan med school, 1930, residency in internal medicine Michigan, residency in radiology at the Mass General. Certified by the ABR in 1935 and was director of radiology at the Binghamton city hospital at Binghamton, New York from 1937 to 1941. Extrinsic colonic lesions A.A.Sames, M.D. University of Wisconsin medical school in with M.D. 1937. Residency at the university of Michigan for three years and became certified by the ABR in 1942. Four years in the armed services. Radiology case reports, B.D. Harrington M.D. Graduated from the university of Minnesota medical school and did a three year residency. He served as the chief of x-ray department at Tacoma General Hospital and was in the army for four years. Dr. Harrington is a diplomate of the American board of radiology.

Feb 1948, Dr. Harrington reported on the board of trustees of the state med assoc.

April 1948 memoriam of Charles Ross Fishel, 1878-1948, Dr. Charles Ross Fishel was born August 26, 1878 in Dell Roy, Ohio. He received his schooling in Ohio, graduating from the Ohio State Medical School in 1906. After interning in a Columbus, Ohio, hospital he went into private practice in Thurston, Ohio. Here, in addition to the routine doctor's practice, he was called upon to do considerable work for the railroads, and at that time he purchased his first x-ray equipment. With the outbreak of the first world war he enlisted as first lieutenant in the medical corps, later becoming captain, and was stationed at both Fort Oglethorpe and Fort Snelling. Here he became acquainted with Dr. Rich of Tacoma. Even before the war, Dr. Rich had planned opening a clinic in Tacoma and on occasion talked it over with Dr. Fishel. After Dr. Fishel's discharge from the army he came to Tacoma, taking over the x-ray of the newly formed Rich Clinic. Dr. Fishel was radiologist for the veterans administration facility when Cushman Hospital was for the care of veterans. Later when the Indian Service took over the hospital, and the veterans administration moved to their new quarters at American Lake, Dr. Fishel not only continued with the veterans administration, but also took charge of the x-ray department of the Indian Hospital. He was also radiologist for the western and bridge clinics for many years. Following a heart attack in 1941 he retired from practice. Dr. Fishel belonged to the Masons, the Edward B. Rhodes Post No. 2, American Legion and the First M.E. Church. In addition to the American Medical Assoc., and the PCMS, he was a member of the Radiological Society of North America and the Washington State Radiological Society.

Mar 1948, Dr. Frank Rigos, who briefly discussed the Drug teropterin and its use in the treatment of inoperable malignancy. He stated that to date the results are a little indefinite but that in a number of cases it apparently produced a sense of well being and relief of pain. The effect on the tumor may either be that of stimulation or inhibition. He cited two cases in Tacoma on which this Drug had been used, one a carcinoma of the tongue with metastasis, who apparently derived some benefit from its use and a case of carcinoma of the breast with metastasis who derived no obvious benefit from the Drug.

Mar 1948, Dr. S.S. Sanderson continued the seminar with a discussion of "the radiological aspects of heart disease." radiological examination of the heart should always include a

fluoroscopic examination. The measurement of heart size is of value, particularly where serial determinations can be made to observe changes in the size of the heart. He suggested that in rheumatic fever heart measurements be made every three to six weeks. He stated that the shape of the heart was frequently characteristic in the various types of valvular heart disease, although not always diagnostic. The amplitude and the presence of increased densities in the heart was occasionally of some diagnostic value.

Mar 1948, Dr. A.A. Sames presented a series of 13 cases demonstrating the effects of extrinsic lesions upon the radiologic appearance of the colon. These extracolonic lesions are more apt to produce x-ray findings in the pelvic colon and by the time these changes are evident the clinical condition is usually well advanced and frequently malignant in origin.

Mar 1948, Dr. B.D. Harrington gave two case reports, one that of a tuberculosis lymphadenitis treated and kept alive for seven years without diagnosis until post mortem. The presumptive diagnosis was Hodgkins disease. The second case was that of a Ewings sarcoma of the pelvis treated by x-ray for seven years and in good condition.

Oct 1948, Harrington board of trustees, legislative, and associate editor. B.D. Macrae was board of trustees and house, Frank Rigos was entertainment and news editor, , Al Sames was library.

Oct 1948, Dr. E.D. McCarty, roentgenologist, is recovering from his recent prolonged illness. We are all hoping for a return, in a measure, of his former energy and strength.

Nov 1948, Dr. B.D. Harrington was re-elected to the board of trustees as representative of the western district.

Nov 1948, Harrington attended the state med soc meeting and won a golf trophy.

Jan 1949, Dr. Frank Rigos discussed the coming chest x-ray program and stated that in the county and city the mobile unit, which was purchased by the christmas seal funds, had x-rayed approximately 48, 000 people.

Jan 1949, Al Sames, Steve Sanderson, and Frank Rigos attended the north American radiological society meeting at San Francisco. They reported a pleasant and profitable time.

Feb 1949, Dr. Rigos made a report on the chest x-ray survey, in which he stated some 22, 850 had been x-rayed up to monday night.

Apr 1949, discussion of chest x-ray program. A fast tempo x-ray of five cities to determine the incidence of abnormalities. 73, 736 minichest x-rays which were reviewed by four public health physicians. 1, 508 had abnormalities which then received 14x17 xrays. Several city groups participated. The results were not discussed in the article.

Oct 1949, Dr. Macrae chaired a committee to select the general practitioner of the year for Pierce County.

Nov 1949, Dr. Rigos conducts x-ray classes for the internes.

Jan 1950, Dr. Rigos discussed the subject of angiocardiology. This procedure consists of the injection of radiopaque material (dioDrast) into the circulation and taking appropriate roentgenograms. A resume of the significant findings of angiocardiology with presentation of a case of aneurysm of the pulmonary artery was given.

Mar 1950, SJ hospital, the boxes on the fifth floor contain the new spot film x-ray equipment. It has recently been decided to place this in the cast room and work to this end is now under way. It should be mentioned that this is the latest type of x-ray equipment.

Mar 1950, Rigos goes to Aberdeen to buy a new Nash ambassador. He is well known in Tacoma.

1950 membership roster, Harrington and Sames 1414, Macrae 1514, McCarty retired, Rigos TGH, Sanderson 522.

April 1950, auxiliary-Ruth Rigos, oza Macrae, Charlotte Sanderson.

Apr 1950, Dr. John Flynn is now associated with Dr. Robert Macrae in x-ray and radium work. Following four years in the us navy Dr Flynn spent the next four years at the university of Chicago in x-ray and radium study under Dr Paul C. Hodges. Dr Flynn comes highly qualified in his chosen specialty.

Apr 1950 Dr Rigos announced that there has been a complete turnover of x-ray personnel in the last month and requested that the doctors be tolerant.

Apr 1950, Dr John Flynn is prepared to give radium therapy and will be glad to discuss such problems with any of the staff.

Sept 1950, Bernie Harrington has been continuing his good work as a member of the board of trustees of the state medical association.

Jan 1951, Washington State Medical Association committees Dr Bernard D. Harrington, state board of trustees, chm. Public relations committee.

Mar 1951, article on who owns the x-ray films. Conclusion is that the radiologist or the hospital owns the films.

Mar 1951 article on the status of the clinical use of radioactive isotopes. States that surgery is the treatment of choice in treatment of hyperthyroidism and isotopes only to be used secondarily.

Mar 1951 first x-ray picture made in america at davidson college, n.C. In 1895 the first x-ray picture made in america and the second ever taken was made at davidson college, north Carolina. Paul Barringer, M.D., of charlotte, north Carolina, established at davidson the first pre-medical course of study ever offered in this country. His efforts led to the founding of the north Carolina medical college, a famous old institution whose mark is still felt in southern medicine. Davidson college is 114 years old and is this year celebrating 100 years in science.

Apr 1951, trustees Rigos and Harrington, alternate delegate Rigos, public relations Rigos, library chm. Harrington, entertainment Macrae.

Apr 1951, Dr. Joseph B. Jarvis was chief of radiology at Puyallup General Hospital. The new x-ray department is very fine and I shall elaborate a bit. The old x-ray rooms have been completely remodeled and new equipment installed through out. The new x-ray machine is of the latest type and design and capable of meeting the demands of the most difficult diagnostic cases, including high kilo voltage and the sixty second exposure. The dark room permits the passage of wet films for outside viewing without violating the safety of the developing films. Individual Dressing booths are conveniently located immediately adjoining the x-ray room, with the entire area safe lighted during fluoroscopy to facilitate the handling of patients. x-ray therapy is not yet available in the department but it is hoped that this can soon be added to give Puallup valley a complete radiological service.

Apr 1951, John Flynn and R.D.Macrae have opened offices in the Tacoma Medical Center. Many of us enjoyed their open house.

Apr 1951, Rigos has really been connecting with the steelheads. We are going to have a medical fishing derby this spring and he can have a chance to prove his skill in public then. Sept 1951, PCMS roster, (Vernon Crowe x-ray and general practice, 1126 MedArts), John R. Flynn, MedArts 1514 and SJ and Medical Center, Bernard Harrington, MedArts 1415 and Doctors Hospital, Joseph B. Jarvis, 110 4th n.W. And Puyallup Hospital, Raymond D. Macrae, MedArts 1517, Medical Center, and SJ, Frank Rigos TGH, Albert Sames MedArts 1415 and doctors, Stevens Sanderson MedArts 522,

Nov 1951, roentgenologists, R.D.Macrae, John R. Flynn, and F. Rigos, have recently formed a new x-ray association. Real beginning of Macrae, Rigos, and Flynn which became Rigos, Flynn, and Maki, which became Tacoma radiology associates which became TRA.

May 1952, Pierce County Hospital is pleased to welcome back Mary O'Neil of the x-ray department. She has completely recovered from her recent illness.

June 1952, PCMS, trustees Rigos and Sames, public relations Rigos and Sames, entertainment Rigos.

Aug 1952, while Dr. Frank Rigos in on vacation in Idaho, Dr. John Flynn is on duty in the radiographic department of TGH.

Nov 1952, north pacific hospital, Al Sames, x-ray Indian Hospital x-ray C.C. McCoy, TGH Rigos, Pierce County x-ray v.E.Crowe, St Joseph Hospital Macrae and Flynn, Doctors and Minor Hospital Harrington and Sanderson, Puyallup Hospital Jarvis

Nov 1952, article—more radiologists than ever before, there are more radiologist in practice at the present time than ever before, one to every 42, 000 persons as compared with one to every 122, 000 persons 20 years ago, according to a recent report from the American college of radiology. The report, based on results of a survey of radiological services made by the professional bureau of the organization, reveals also that in every section of the country chest studies account for about one-third of all x-ray examinations.

Jan 1953, the x-ray department is in the process of getting some new equipment. They will soon have a new portable x-ray machine and an angiogram.

Jan 1953, an 18 ½ pound steelhead from the Cowlitz river is Dr Frank Rigos most recent triumph. Expert opinion here is that this makes him tops in his class.

Feb 1953, PCMS, trustee Sames, delegate Rigos, public relations Sames, entertainment Flynn,

July 1953, Pierce County hospital, new x-ray staff Mrs. Eleanor Schwarz.

July 1953, TGH a "fairchild roll film cassette" for cerebral arteriograms is the latest equipment addition of the x-ray department.

August 1953, Dr. Wayne A. Chesledon, lately of San Francisco, Calif, has joined the staff of Pierce County hospital as assistant to Dr. Fran Rigos in the x-ray department.

August 1953, Dr. Frank Rigos and Dr. Warren Smith of the hospital staff are enjoying a fishing trip in Montana.

Oct 1953, Miss donna gustin and Miss joann soraghan both graduates of St leo high school are pioneering in the field of x-ray technology in our hospital St Joseph. As yet the state of Washington has no registered school for x-ray technology. With the demand for technicians there are great possibilities for success in the field of x-ray.

Oct 1953, Vernon Crowe MedArts 1126, Wayne Chesledon, 1206 S 11th and Pierce County, Flynn MedArts 1514 and Medical Center and SJ, Harrington MedArts 1415 doctors and minor, Jarvis Puyallup, C.C.McCoy Western Clinic and perkins bldg, Rigos TGH and MedArts 1515, Sames MedArts 1415, doctors, and minor., Macrae retired.

Nov 1953, SJH, Mr. Jack McDonald who has been chief technician in the x-ray department for the past three years is leaving on the 1st of November, for California to further his training.

Nov 1953, SJH, our x-ray department looks all shiny and new since it has been completely streamlined for modern convenience.

Dec 1953, SJH, Miss Molly Love is our new x-ray technician on the fifth floor, she replaces Jack McDonald in the x-ray department. Miss Love comes from Victoria, B.C., where she trained for two years in the Royal Jubilee hospital.

Jan 1954, Mrs. Sophia Young is the new medical stenographer in x-ray department. She comes to us from north Dakota.

Jan 1954, Mrs Marian Smith a graduate of St. Joes and an x-ray department employee for many years, is a patient on third floor.

Jan 1954, SJH, Loreign M. Ugland has recently been assigned to the x-ray department taking the place of Audrey A Kaplan who has returned to her home in Salem, Oregon.

Feb 1954, SJH the Washington society of x-ray technicians has formed a new district in Tacoma. This includes the surrounding towns. The meetings will be held on the first Wednesday of each month. All technicians are cordially invited to attend. The next meeting will be held in Jackson Hall. Tacoma General Hospital, on Feb 3, 1954, at 8pm. The meeting will be doncuted

by Robert Anderson of TGH with Dr. Frank Rigos, the speaker. His subject will be the "wonder of the fairchild camera and xrays." Mary O'Neal R.T., Pierce County hospital is executive chairman of district no. 2.

Mar 1954, the Macraes(oza) who have moved to Allyn since the doctor's retirement, report that their family enjoys living on the water after years in Tacoma.

Mar 1954 Pierce County, Gordon Krenzler, R.T., has completed his service with the United States Army and has returned to his position in the hospital x-ray department. Mrs. Eleanor Schwartz, R.T., who filled Mr Krenzler's place during his absence, is accepting a similar position at St. Joseph's Hospital.

Apr 1954, hospital council consisted of Northern Pacific Beneficial Assn Hospital, Pierce County Hospital, St. Joe's Hospital, Tacoma General Hospital, Good Samaritan Hospital(Puyallup), Doctors Hospital, Washington Minor Hospital.

May 1954, memorial, Vernon Crowe, M.D., 1889-1954, Vernon Earl (Pat) Crowe was born at Benton Harbor, Michigan in 1889. He received his medical degree from the Loyola University Medical School, Chicago, in 1914. His first work in Tacoma was as a member of the staff of Northern Pacific Hospital. During the regime of Dr. Saxe Mowers. Pat enjoyed the service there and under the tutelage of Dr. Mowers, he became a skillful surgeon.

Some years later he was given the rating major surgeon on the staff of the Tacoma General Hospital. He relinquished this rating recently due to ill health. Besides surgery, his primary interest was roentgenology, which occupied much of his time. The writer's first acquaintance with Pat was in 1920, on joining the staff of St. Helens clinic. Pat had charge of the x-ray department and in addition did much general work, including considerable surgery. He was a tireless and cheerful worker, always seeking opportunities to be of service. In 1928 he established an office in the Medical Arts Building combining roentgenology with general practice. He maintained this office until about two weeks before his death. During his earlier, active years he was interested in civic affairs and was especially active in work for boys, and served a term as president of the boy scout council Tacoma. He became a member of Rotary in 1923, and participated in many of the club's activities, particularly in boys work. He served as president of Tacoma Rotary from 1928 to 1929. Pat was a shy man, who found it difficult to make new friends, and later years as his health declined, he retired from most activities outside his home and office. To those who knew him, Pat was a lovable person, capable, loyal, kind and generous.

Apr 1956, TGH popular x-ray technician, Bob Anderson was married on March 24. In September the Andersons will move to Seattle, where Bob will enter the University of Washington school of medicine.

Apr 1956, Pierce County Hospital, the Washington Society of x-ray technicians will hold its 4th annual convention on May 5 in the Winthrop Hotel, Tacoma. Walter Kain, R.T., will be chairman and Mary O'Neal of Pierce County Hospital will be co-chairman.

Apr 1956, roster changes Kenneth E Gross, radiology Tacoma Medical Center. #15.

Apr 1956, SJH, Jack McDonald, our head x-ray technician has returned to us after spending three years in sunny, California. Welcome back, Jack. Sophie Junge is back again taking our

reports to their proper destinations. She has a full time job with Raymond, Jr. Who is a very beautiful baby.

Apr 1956, surgical club, a paper "persistent problems in colon diagnosis" by Dr. A.A. Sames who cited the pitfalls of the x-ray examination of the ascending colon, in as much as it can not be completely visualized. He gave the methods for sometimes it is necessary to do the patient again in order to observe a lesion and even then, if one is suspicious, it is necessary to do an exploratory to absolutely establish a diagnosis of lesion in the right colon. He also stressed the necessity of doing proctoscopic examination at the time of colon examination, to rule out lesions of the lower colon.

Apr 1956, introducing Dr. Kenneth E. Gross, Ken was born in Newark, NJ, in 1919. He attended the elementary schools in union, jj.J. And obtained his AB in 1940 at Dartmouth and M.D. At the University of Pennsylvania in 1943. From 1944 to 1946 Ken served in the army at Okinawa and Leyte. After completion of his army duty he went into a radiology training program first at Dartmouth and later at Harvard. From 1950 to 1955 he practiced radiology in Spokane and as of January, 1955, has been in Tacoma association with Drs Rigos and Flynn. He has made contributions to medical literature having articles in radiology, New England Journal of Medicine and Northwest Medicine. Ken has a family consisting of wife Deaty and three children, 7 1/2, 5 and 4 weeks. Ken is a real outdoorsman. He hunts-both big game and birds. He fishes- both fresh and salt water. Also he has made several ski trips since coming to Tacoma.

July 1956, SJH, new interns include Dr. William L Rohner from the university of Iowa.

July 1956, introducing Dr. Thomas D Moberg, Tom comes from Minneapolis. After completing his elementary education he went to the university of Minnesota where he had a combined college medical school course from 42 to 1945. After an internship in Waterbury Hospital, Tom did six months of general practice in northern Minnesota. Subsequently he returned to Waterbury for one year in radiology and Minneapolis for two additional years at the Swedish Hospital. Tom was in Korea and Japan from 52' to 54' with the army and then returned as a staff radiologist at Swedish in Minneapolis until the end of '55. In January of this year he came out to Tacoma to be associated with Dr. Sanderson in radiology. Tom lives on Skyline Terrace with wife Myrna and their 4 yr old son John and 6 weeks old daughter Mary. Tom is a proficient golfer, having won the recent Pfizer Derby.

August 1956, Tacoma Pierce County civil defense assignments. TGH and MB, Rigos TGH, Sanderson Mary Bridge. Pierce County Hospital and Mt. View Sanatorium, C. Allen, SJH R. Macrae, J. Flynn, C.C. McCoy, doctors and medical arts, Harrington and Douglas Erickson (tech), Northern Pacific Hospital Al Sames, Indian Hospital Thomas D. Moberg, x-ray, Indian Hospital. Puyallup Good Samaritan J. Jarvis.

October 1956, SJH, Dr. Rohner is our new intern, welcome, Dr Rohner.

Oct 1956, PCMS roster, (Crowe gone) Flynn SJ and Tacoma Medical Center 151/2, Gross Tacoma Medical Center 15 1/2 SJH, TGH, and MedArts 1514 Harrington doctors and minor and MedArt 1415 and Tacoma Medical Center #9, Jarvis 110 4th ave Puyallup and Good Samaritan, Rigos TGH and MedArts 1514, Sames doctors and minor and MedArt 1415, Sanderson Madarts 522 and Tacoma Medical Center #32, (Moberg not listed), Macrae retired.

Nov 1956, Pierce County, Mary O'Neal of the x-ray department is spending her vacation with her sister in Jackson, Mississippi. She left by plane on the 12th of October and will spend two weeks in the south.

Nov 1956, Steve Sanderson wrote a laudatory article on the assoc. of American physicians and surgeons.

Dec 1956, a report on the tuberculosis x-ray survey with the goal of x-raying everyone in Pierce County.

Dec 1956, note that Rohner is working on the medical service at SJH.

Jan 1957, SJH, the x-ray department said goodbye to Clair Villeria, (our little's tech). Judy Manza was the hostess at a buffet dinner attended by the x-ray department personnel and their friends. Clair and her husband leave for their home in New Mexico after completing their service requirement. Clair was in charge of the radioisotope laboratory along with her duties as an x-ray technician. Happy new year to all.

Mar 1957, Len Renner (the night call x-ray technician) is the proud father of a baby girl. The student x-ray techs have been attending weekly classes at VM Hospital in Seattle.

Mar 1957, SJH, the x-ray department is happy to welcome Dr. Henry Maki back for a few days while Dr. Gross is enjoying a week's vacation at Sun Valley, Idaho. Dr. Gross is a ski enthusiast and is taking advantage of the wonderful season at the Idaho playland.

Apr 1957, x-ray tech Peggy Bloom was mentioned, Jack McDonald was seen passing out cigars the other day announcing the birth of Gregory Allen McDonald, born March 12th (the feast of St. Gregory, the Great). Mr. McDonald was especially proud as this is the third boy for the McDonald family.

Apr 1957, Pierce County, on April 3 the Washington Society of x-ray technicians held its meeting at the Mountain View Sanatorium. A Dupont movie, "First a Physician", telling of the day in the life of a specialist who is important to you, shown Joan Kirmse, R.T., who is vice president of the group, with the other Pierce County Hospital x-ray technicians, attending the meeting.

May 1957, SJH, the student x-ray technicians attended the monthly meeting of the Tacoma Society of x-ray technicians and reported a very educational and informative program highlighted by a film based on the work of a radiologist, his work at the hospital and at the office. The film was furnished by the representative for the Dupont Company.

July 1957, local Dr returns to the fold, Dr. Henry Maki, radiology, located at Tacmedcry #15 1/2.

July 1957, Joan Darlene Kirmse of the Pierce County x-ray was married.

Jan 1958, Eileen Finn leaves SJ to get married. Another absence from our department is Dr. Henry Maki. Dr. Maki will make his new home in Milwaukee, Wis. We will miss him around the x-ray department.

Feb 1965, SJH, the x-ray department now holds classes on monday evening. It is a physics class taught by Mr. West ross and Mr glen scofield. We are very sorry to hear that pegy Bloom, on of our last year students is leaving us. We'll surely miss she is going to work for Dr Jarvis in Puyallup. We are happy to welcome back nancy Connery who will be working 3-11 in x-ray. These familiar faces will still be seen roaming the halls. Peggy James, Joan fahey, Peggy mallany, diane schaff, and Jack McDonald.

Mar 1958, no rads in any offices in PCMS.

May 1958, Pierce County Hospital, chief tech Mary O'Neal had a party at her home to launch a 12 ft boat that she made, the "Mary made".

June 1958, SJH, x-ray tech graduation Peggy mallany, Joan fahey, and eileen zaichkin. The x-ray school has been open since 1953 with two students. Since then thirteen students have graduated and all have passed their national exam. Families of the graduates were invited to the graduation where Dr John Flynn adDressed the graduates and presented their diplomas.

Sept 1958, SJH, there are some bright and shiny new faces in the x-ray department and they are Frances Anich and suzanne mickens. They are the new students who started on June 23rd. Good lunck to you both. Our head technician, Jack McDonald, is in Wisconsin for his vacation and will B E back on September 8th. Have a nice vacation , Jack. We all wish to welcome Dr. Lynch to St. Joseph hospital. Dr Lynch is the new radiologist that you see in the x-ray department. We also want to welcome back Dr. Maki who just returned from the east.

Apr 1959, reference to talk that Rigos gave on "unusual tumors of the stomach" to the surgical club.

June 1959, SJH, x-ray techs graduates who received diplomas suzanne dee mickens, marjorie Hanley, Joan Rae Keuter, and Frances a Anich.

Aug 1959, reference to Dr B Harrington winning a low net for the phy-dent golf tournament.

Sept 1959, reference to directory changes, Dr Kenneth Gross 522 Medical Arts Building 522, Dr Joseph B Jarvis 800 S. Meridian, Puyallup, Steven Sanderson, 522 Medical Arts Building.

Sept 1959, SJH, sister Anthony Therese is now in the x-ray department.

Oct 1959, reference to talk to PCMS on cineradiography and simultaneous biplan radiography by Dr Stevens Sanderson and Dr Kenneth E Gross. At honans restaurant.

Oct 1959, reference to new x-ray student sister Patricia Catherine.

Dec 1959, SJH, students of the x-ray department have been busy these last few weeks. Along with their daily classes and practical work, they have just completed a series of physics lectures, at Mary bidge clinic, conducted by Mr. Dean Ostrude, of Picker x-ray corp. It is hoped we can all pass our registry test when the time comes. Our schedule also included being hostesses for the district n. 2 x-ray technicians meeting at which Dr Flynn spoke on "protection from x-ray". And Dr Maki discussed radioisotopes. Techs Frances Anick and Karen Giusiano are going to be married.

Jan 1960, Dr Gross is going to be on 'ask your doctor" on channel 11 about skiing injuries.

Jan 1960, TGH, Frank Rigos MD radiologist at TGH, recently presented forty-five bound volumes of the American Journal of Roentgenology to the hospital med staff library. They cover the years 1934 to 1958.

Mar 1960, no pacific pediatric soc spring meeting, voiding cinecystography by Dr Gross.

Mar 1960, Good Samaritan Hospital, Dr. Joseph Jarvis, radiology.

Apr 1960, SJH, best wishes to Nancy Connery on her forthcoming marriage to Bob Caton. The x-ray crew was happy to see sister Patricia Katherine's smiling face back in the department after her illness. While Dr Flynn is attending a radiologist conference in San Francisco. Dr Maki is assuming the busy schedule of both his and Dr Flynn's duties two of the x-ray students, who will be graduated in June, Carol Cox and Karen Giusiano will be representing St Joseph Hospital x-ray department at the Pacific Northwest x-ray technicians convention being held in Boise, Idaho. Kare will give a speech on photo timing.

May 1960, disaster call list, doctor's hospital B Harrington and A Sames, Mary Bridge Ken Gross, MedArts hosp S Sanderson, Mt View General Hospital H Maki, St Josephs Hospital J Flynn, TG F Rigos.

Apr 1960, SJH, at a recent meeting of the Tacoma section #2 of the state xry tech assoc, Jack McDonald was named president-elect and Karen Giusiano is vice-president.

Oct 1960, toward the end of October, Florence and Frank Rigos will be leaving for a week in Winnipeg. They'll travel by Canadian pacific going east and will return via Canadian national. They will really see the scenery this way.

Nov 1960, election of new members to PCMS, Dr Rohner was born in Iowa city, Iowa on June 2, 1924. He received his degree from the university of Iowa in 1956 and interned at St Joseph's hospital, Tacoma; postgraduate training was taken at the state university hospital of Iowa. Dr Rohner a transfer from the Johnson county Iowa medical society, began practice in Pierce County in July, 1960, and he and his wife, Mary, are living at 10417 Rainier Ave SW. He is specializing in radiology with offices in the MedArts bldg.

Nov 1960, on Oct 5, dest 2 of the Washington State soc of x-ray technicians held a meeting at St Joseph. Doctors McNerthney and Rohner spoke on the importance of radiology in obstetrics. 37 techs were in attendance. Each Wednesday evening me Doug Walker conducts a class in x-ray technic for the x-ray students and techs interested in a refresher course.. This plus regular classes in anatomy and terminology makes a full schedule. The absence of mess Janyce Frickelton from the x-ray department is due to her acceptance of a job in the offices of doctors Harrington and Sames. Miss Beatrice Dugaw will also be leaving the department soon. Mr Jack McDonald, chief x-ray technician, is the proud father of a baby girl, Kathleen Marie.

Jan 1961, SJH, the x-ray department now strongly feels the loss of Mrs. Cro Ringus due to a coming bundle of joy.

May 1961, Lakewood Hospital, first reference to Lakewood Hospital and Myra Vozenilek was the disaster rad.

July 1961, doc hosp, a belated wedding party was held by the employees of the doctors hospital in honor of Mr and Mrs Douglas Williams. Mr Williams is with the x-ray department.

July 1961, Mrs Kenneth Gross becomes president of the auxiliary.

Aug 1961, TGH, vincent armatis has recently joined the x-ray department as head technician. He comes to us from ditzsimmons army hospital in Denver. He has served a total of 21 years in the army medical corps. Mr armatis replaces Mrs louise cameron who returned to her native canada.

Jan 1962, Dr B D Harrington is president elect of the doctor's hospital.

Feb 1962, Ken Gross is chairman of public relations comm of PCMS and is directing the "ask your doctor". Program.

Feb 1962, SJH, we are proud to announce that we have a potential champion in our midst. Our head technician, Jack McDonald, is leading his curling team to the state championship at the granite curling club in Seattle on Feb 17 and 18. They hope to play the u S champions.

Mar 1962, Bill Rohner on "ask your doctor" on hip fractures.

Apr 1962, memoriam for Stevens S. Sanderson. It is with deep and sincere regret that the sudden, unexpected death of Stevens S Sanderson is brought to the attention this society. Steve was a member of numerous professional and scientific societies like so many of our county medical society members, but among our radiologists he was the only fellow of the American college of radiology in our city, a fact of which he was justifiably proud. Steve practiced as a radiologist in Tacoma for 22 yrs, coming here to enter practice with doctor Fischell, who had already established a radiological practice in this community. Steve's high standards of personal and professional character were well known, but it was his fair dealing which exemplified the motivations of his life so that he won the admiration and affection of all the lives he touched. His compassion for those in trouble prompted him in his quiet way to support what he knew to be right and fair. He was courageous in this fight for what he believed to be just in his profession, his religion and in society, without limitation by any fixed pattern. "when there is much desire to learn, there of necessity will be some argument, some writing; many opinions;for opinions in good men is but knowledge in the making"(Milton). This is how it was to practice with Steve, for he willingly accepted new procedures while constantly retaining his capacity for understaning with deep faith the progress of medicine and humanity. Apart from medicine his greatest pleasure was "planning", whether it was piece of hi-fi equipment, a new home, a "predicted log race", or planting of a new flowering shrub, it was always preceded by a carefully Drawn sketch and diagram. There is no doubt that Steve's deed made our community a better place in which to live and the medical segment of our community respected beyond its geographic or social confines. (Ken Gross)

May 1962, SJH, the x-ray department has received word that its school of x-ray technology has again met the requirements set up by the council on medical education and hospitals and has been given continuing approval by the council. This approval allows the school to train a total of

seven students over a two year period of training. We wish to express our sympathy to Jack McDonald whose mother passed away unexpectedly.

June 1962, the 34th annual convention of the American society of x-ray technicians will be held in Seattle.

Aug 1962, guest editorial by Frank Rigos about the possibility of Medicare.

Oct 1962, SJH, during the summer months four students graduated and left the department . They are Mary Jo armstrong, kay brown, Patricia deschane, and Jerry Walters. Mr Walters is now attending St Martin's college while the others are employed by local doctors. The five new students, now in their third month of training are becoming well acquainted with the fundamentals of x-ray technology through class work and practice experience in the department. The new Picker x-ray diagnostic machine which has just been installed is now near completion. With the combined efforts of the carpenters and painter we anticipate a house warming in the near future. This latest addition to the department has the newest and most modern facilities now available. It is fully equipped with fluoroscopic and body section accessories. Body section radiography is the special technique use for demonstrating a selected plane or layer of body structures. It is a remarkably effective tool for exploring anatomical structures, revealing detail ordinarily obscured by superimposition. With this new equipment the kilovoltage range is capable of being raised thereby reducing the exposure time which is most helpful with children and adults who can not suspend respirations. We can now take x-ray at 1/120 of a second.

Dec 1962, PCMS nominees, Rigos and Buttorff for president, Ken Gross for delegate or alternate.

Jan 1963, Ken Gross chair of medical records committee, Myra Vozenilek, not on any committee suggesting that she is no longer on staff.

Feb 1963, Vernon O Larson MD new PCMS member, 522 Medical Arts Building.

Feb 1963, SJH, the Jan meeting of wsxt was held at SJH. The technicians from this area were well represented. Dr Rohner, radiologist here, gave a very interesting and informative lecture. His topic for discussion was "the use of radiation therapy for diseases other than cancer". Royal domingo, counsellor, congratulated the newly registered technicians and encouraged all to belong to the American society of x-ray technicians.

Mar 1963, SJH, the x-ray department is now in the process of further renovating. A much needed remodeling job is underway which will enable the technicians to have more filing space, a large office, and a private office for the radiologist. After a long time of planning, everyone is the department is very happy to see the project getting under way and anxious to see it completed.

Mar 1963, Frank Rigos wrote a letter to the editor saying that the PCMS should not engage in arguing flouridation of the water when there were so many other , more important, things we should be involved with.

May 1963, SJH, x-ray graduates, karlene scott, Barbara foster, and Ruth Baumgartner.

May 1963, Lakewood Hospital, second x-ray room is now in the final stage of completion and will soon be available for the full-time use.

July 1963, SJH, an entirely new method of film processing and drying has been installed in our x-ray department. The machine that has caused all this excitement is the packorol-xm automatic processing unit. This machine has a long background of thoroughly satisfactory performance. Film hangers are eliminated; exposed film is removed from the cassette or exposure holder and fed directly into the machine. The paco-xm takes over and for the next 6 minutes the film is conveyed into and out of the developing, stop, fix and wash tanks, and on through the dryer. A fully processed and dry radiograph drops into the receiving bin. The processing of each film hour after hour, day after day, is of uniform high quality. The benefits to the x-ray department are obvious, because film reading can begin a few minutes after the first exposed film is fed into the machine so patients can be released more quickly. Another project that is under way in the x-ray department is one that the staff has waited for and planned with patients's comfort and privacy in mind. We have long wanted to expand our bathroom facilities, but we no more than started the project when we would run into a wall full of pipes or some other obstacle, but the maintenance department "found a way" and we will soon have bathroom facilities leading from the radiographic room.

Aug 1963, Frank Rigos wrote an article about fighting socialized medicine and operation hometown to educate the public. Followup article the following month.

Dec 1963, TGH, dec 7, TGH will entertain all employees and their guests at an evening buffet. It will be held at normanna hall with local talent. Mr Don morgan, chief x-ray technician, will act as master of ceremonies.

Dec 1963, SJH, during the past month, sister Anthony Theresa had the privilege of attending an x-ray institute in St Louis, MO. This program was sponsored by the catholic hosp assoc and proved to be most educational while the trip itself, by jet, was delightful. Mr McDonald known throughout the hospital as "Jack" was hospitalized for a few days. All are glad to see him back in the department again. In the meantime the students are having some challenging and satisfying experiences, the seniors with special procedures, while the younger girls are now assisting with fluoroscopies. All agree we will miss Mrs Halverson as we transport the patients to and from third north.

Jan 1964, Frank Rigos MD becomes president of PCMS. Writes monthly bulletin newsletter, frequently about political issues and socialism. His year was very active and constructive and proactive. Official notification in bulletin, new president of the PCMS for 1964 is Dr Frank J Rigos, a radiologist of 20 years experience in practice in Tacoma. Elected at the December elections to serve in that office in 1965 was fred schwind, gp. Dr Rigos was born and raised in spaul, Minn., attended medical school at university of Minn and took his graduate work in radiology at the Mayo clinic. He has been a trustee of the society during 1963 and also has served in this capacity on previous occasions. He was formerly president of the board of trustees of the Washington physicians service. For recreation, he lies, hunts and fishes, and finds time at home to grow orchids in his two greenhouses he maintains in his yard. His wife Florence, is active in women's auxiliary of the society, and they live at 1716 n Jackson St.

Mar 1964, symposium on GI disease. Presiding was Dr Rigos, president of medical society, who gave credit to the Lederle company which sponsored the meeting.

Apr 1964, presentation to PCMS of the battered child syndrome. Participant Ken Gross.

May 1964, SJH, Karen Kuhn, first year student, has returned from her vacation. Karen was caught in a dust storm, but survived and has returned to resume her duties in the department. Refresher courses in x-ray techniques and x-ray physics are being attended by the students in x-ray department on Monday and Thursday evenings.

June 1964, SJH, along with the usual annual ailments of spring colds accompanied by spring fever, the x-ray department at SJH is experiencing another age old ailment, graduatitus. Three senior x-ray students who are victims of this "ailment" received their diplomas May 31. The graduates are Linda Curington, Tacoma; Myrna McDonough, Steptoe; and Linda Skirvin, Puyallup. The girls will continue to work at St Joseph until June 17. Graduation exercises will be under the direction of Dr William Rohner, M.D.

Sept 1964, PCMS meeting, lecture "The Cobbler and his children's shoes", George Barnes MD, Los Angeles Children's Hospital.

Dec 1964, PCMS nominees, Frank Rigos, delegate.

Feb 1965, Rigos, trustee chair grievance, Gross alt delegate., Rohner entertainment.

Mar 1965, SJH, the x-ray department reports "The Case of the Week" continues to intrigue even the most astute. For those unacquainted with this year old project the x-ray department has been exhibiting a series of x-ray film with interesting diagnostic features. Films are selected by the radiologist and placed on exhibit in a prominent place so the doctors frequenting the department can demonstrate their prowess for film interpretation by placing their "educated guesses" in a nearby locked box. At the end of the week the radiologist findings, supported by other proven clinical evidences are revealed. Entries which coincide with the facts of the case are recorded in the log of "Thinkers of the Week". At the end of the year a most fastidious tally is made of the frequency with which individual physicians have acquired the coveted weekly title of "thinker of the week". The one achieving the highest number is presented the annual trophy of the "thinker" at the staff banquet. In 1964, in an atmosphere of utmost ceremonial solemnity Dr Rohner, assistant radiologist, presented this trophy to Roger Dille.

May 1965, SJH, tribute to night x-ray technician Renner R.T.

June 1965, SJH, congratulations are in order for two x-ray students, Sister Mary Martina, M.S. and Trudi McDonald, who received awards for entries at the Washington Society x-ray tech convention held recently in Tacoma. Sister Mary Martina, first year student, presented a paper which dealt with a new technique in x-raying the sternum. Evaluation of this paper included, not only excellence of content, but also style of presentation. Sister's paper was selected from approximately ten such papers presented by both students and registered techs. The award offered by Picker was Merrill Positioning. Miss McDonald was the recipient of a cash award for the best exhibit by a student. Using both photography and radiography, her graphic display was entitled cervico-dorsal junction. This display received the distinction of later being exhibited to the May state meeting of radiologists, in Seattle and of receiving many complimentary

comments. Also several highly commendable entries by other SJH x-ray students, including entries by daren kuhn, elaine matz, and millie pancho. The x-ray department was justly proud of all these entries. –Jack

July 1965, stj school of x-ray technology has recently graduated a class of five techs. All of the who took the registry examination passed it, and will be leaving the hospital soon to take other jobs offered to them. Mely pancho will be working at king county hospital in Seattle. She is a native of the Philippines and attended the university of the east in manila. Trudi McDonald, gig harbor, is planning to work for Drs Rigos, Flynn, Maki and Rohner, at one of their private offices, here in Tacoma. Karen kuhn, pomeroy, Washington will work at the University of Washington hospital in Seattle. Carol hauser, Tacoma and naomi henDricks, fife , are undecided.

Sept 1965, SJH, the x-ray department welcomed four new student x-ray technicians. The students are Karen kopljen from baker, or, starr rowen, renton, wa, gregg bronson, gig harbo and linda hammon from Tacoma, wa.

May 1966, a two page discussion of new cobalt unit at TGH by Drs Rigos and Maki.

Oct 1966, building of Doctors Hospital.

Oct 1966, in memoriam, Raymond D Macrae MD, the recent death of Raymond D Macrae, M.D. Marked the passing of the last of the old pioneers in radiology in this area. "mac", as he was familiarly known to many of us, was a real man in the true sense of the word. He was not only a fine doctor, well-versed in his specialty, but he was also one of the kindest and most gentle of men to grace our local medical profession. He performed many acts of unselfishness to his fellow man, not the least of which was loaning and giving appreciable sums of money to the less fortunate than he, or to young doctors in order that they might get a start in their profession. He was unwaveringly loyal to the sisters of St Joseph Hospital and they will never forget his kindness toward them during the depth of the great depression when he often refused to accept remuneration for his work as radiologist. His interests were many and varied, running the gamut from active participation in sports in his younger days to politics, curling, raising and training hunting dogs and gardening, as the years passed by. "mac" often talked of his baseball barnstorming days throughout the middle west, particularly in his native state of Wisconsin as a young semi-pro first baseman. He was also a star end on the camp Lewis football team of world war I and played against the mare island marines in 1919 in what later became the well-known annual rose bowl classic. Dr Macrae graduated from the university of Oregon medical school and was member of pi chi medical fraternity. In addition to the local and state medical societies, he was also a member of the Washington state radiological society and the radiological society of north america. He accepted his last and painful illness with great patience, fortitude, and dignity to the very end. Survivors, in addition to his son joe, include a brother and sister in wisconsin. –John Flynn—

Oct 1966, discussion with Jack McDonald who worked with Dr Macrae from 1950 to 1953. He was a big man who was a scot and somewhat tight with his money as many were who went through the depression. Macrae had many real estate investments and owned several buildings around Tacoma. He met with his business manager who handled his real estate every morning before doing his radiology work at SJH or MedArts. He also owned tracts of land around allyn where he moved to when he retired. Jack was the only x-ray tech at SJH for several years. Previously the nurses took all the x-ray for Macrae. A particular nurse known as "smitty" would

frequently come down from the ward to take x-rays. Macrae was one of those early rads who did not realize the danger of radiation and lost all the fingers of both hands to radiation. He had one adopted son , joey. Macrae willed \$250, 000 to SJH on his death.

Dec 1966, the present Allenmore Hospital was known as medical art hospital for three months before changing name to Allenmore Hospital.

Feb 1967, talk by Bill Rohner on x-ray manifestations of abdominal trauma.

April 1967, Rigos named republican party county chairman, by near-unanimous vote, the 139-member central committee of the Pierce County republican party named Dr Frank Rigos chairman of the committee last month. It was Dr Rigos first official position in politics, although he has contributed his time and talents to political endeavors and interests for many years. He replaces Frank duffeck in the position.

July 1967, O'connell Rohner win, though lost in the crowd as far as any individual honors were concerned, Drs O'connell and Rohner considered the day a satisfying one as they bested a duo of lawyers in a tense personal battle when they defeated fishburne and wally cavanaugh.

Jan 1968, PCMS positions, alt delegates, Rigos, ethics Harrington, public relations Gross, program Rohner,
spet 1968, radiology staffs of departments, TGH Rigos and Flynn, SJH Flynn, Rohner, mountain view general hosp Kenney, mbch Gross and assoc, Doctors Hospital Harrington, Allenmore Larson, northern pacific hosp Barnes, Good Samaritan Jarvis, lakewood M. Vozenilek.

Dec 1969, article "moment of truth" by Frank Rigos. Two page story of his hunting and killing a large grizzly bear. They shot a moose in central Alaska they used for bait they sat on the carcass of the dead moose for 5 days beginning before sunrise till on the 5th day he showed up and Frank killed him with 2 shots. His concluding paragraph, "hunting big bears does have an appeal. Now when I touch off the first shot I know how the matador feels—it's the moment of truth. You are committed. When you shoot that bear the code says you must finish him. You say to yourself, "what am I getting into now? Why am I asking for trouble? Maybe the danger, the elation or some primitive urge is the answer. But with civilization destroying the habitat, not many more people will have the opportunity to ask themselves these questions". Frank Rigos

Apr 1970, Kenney discussed the effects of radiation therapy at an oncology conference.

Dec 1970, murphy and piper warned fellow surgeons the danger of arterial catheterization, in a talk to the north pacific surgical assoc meeting they said"the increasing commonplace usage of this and similar procedures by a number of different specialties, noting that the relative simplicity of the technique might lead some physicians to ignore the possibilities of significant complications.

Jan 1971, PCMS offices, alt delegate Larson, entertainment Rohner, med ed Barnes, editor Whitney.

Jan 1971, article by Rigos and ralph stagner about their african safari in zambia. Excellent description of the natives and living circumstances. Their licenses allowed them to kill 33 animals each, they took 19 each. Good article actually. Not any gore of the hunt.

Nov 1971, Doctors Hospital, 20 year recognition of Doug Williams the x-ray tech.

Jan 1972, PCMS offices, John Flynn trustee, public relations Gross, Rohner entertainment, Barnes medical education, Whitney chr editrail board.

Feb 1972, Barnes starts radiological case of the month in the bulletin.

Dec 1972, PCMS, x-ray takes football crown, under crisp autumn skies on November 11, the Tacoma General Hospital x-ray barium babes defeated the emergency room champs 18-0. The x-ray team, resplendent in the "barium babe" sweat shirts, never relinquished the lead they took in the first quarter. The game ended with the hard Driving er team poised for a touchdown on x-rays 10 yard line. The game was played before a roaring crowd at jefferson park field. The half-time was so devoted to strategic planning sessions that hardly anyone missed the marching band. Team members were: Karen hill, francis vincent, sr stevenson, Jan kusche, Jack comfort, sam colito, louise thompson, sinda cassau, gary guNovich, kayt carlson, merry loppe, sue bemis, sue harlin, Chris megiverson, debbie walsh, cheryl evans, nancy ahrens, sharon mcinyre, penny Jones, patty hassel, Karen mikkelsen, paul bader, Drs katterhagen, nagle, blackett, Roller , Jackson , delyanis.

Apr 1973, psh, Gill Roller radiology.

May 1973, Bob Whitney steps down after a year as president of the piece co medical bureau.

June 1974, in memoriam, Albert Ayres Sames, it is with mixed feelings of sorrow and humility that I write words that are appropriate to the memory of doctor Albert Ayres Sames who died on May 5, 1974. Sadness at the loss of a personal friend of 33 years, and humility at my incompetence to describe for others the man that he was. Al was born on March 20, 1909 in texarkana, Texas. His father was a federal court judge whose territory was the wild and as yet untamed southwest. In his youth he attended the western military academy in alton, Illinois. After that he attended the university of wisconsin for eight years, four in premed and four years in medical school. He spent one year at multnomah county hospital in portland as an intern, where he met and married Ruth. The next three years were spent at ann arbor, Michigan in radiology, followed by a move to Tacoma in 1941 where he became associated with Dr bd Harrington in the practice of radiology. During the years from 1942 to 1946 he served in the united states army medical corp. Our paths crossed several times in those army years with pleasant memories for both families of meetings in new orleans, el paso, and fort Smith, Arkansas. In 1946 the Sames family again chose Tacoma as a place to live and work. Al practiced in the Medical Arts Building and Doctors Hospital until 1966 when he moved to Puyallup to form a partnership with doctor joe Jarvis. He retired in January of this year. Al was an excellent diagnostic radiologist, as many will testify, and the specialty of radiology was peculiarly suited to his striving for perfection. He was photographer in both the artistic and technical sense. He built his own stereo set and had an enviable collection of records and tapes. He loaded his own shells for pistol competition. At various time his activities encompassed skiing, fencing, and boating. He was a lifetime member of the national rifle assoc., and a senior member of the Tacoma surgical club. Those who knew him well will not forget his excellent command of the english language, his mastery of rhetoric, whether it was in the telling of a story or in a philosophical or political discussion. Tacoma has been richer for his

having lived here it will be sadder for his passing. He leaves his wife Ruth, and three fine sons Mark, Dale and Todd.

Oct 1974 , SJH, sister Marie Bernard, Osf, has been elected chairman of the eleven member board of trustees of St Joseph Hospital and health care center, operated by the order of St Francis. She is the supervisor of the x-ray department at St Joseph.

Feb 1975, SJH, George R Barnes MD, Tacoma radiologist was installed as the president of the 335 member medical staff of St Joseph Hospital and health care center this month, succeeding John R Alger MD. Dr Barnes came to Tacoma in 1967 from children's hospital in Los Angeles, an affiliate of the University of Southern California. He served there in pediatrics and radiology. He is associated with Tacoma Radiological Associates.

Mar 1975, Tacoma surgical club 44th annual meeting, Robert Rich, ultrasonography and surgery, Emory J Bourdeaux, MD, ultrasound and some of its applications, Roller, Rohner, Kenney, Bleiweiss lower extremity venography, Pliskow, Campbell, and Gross abdominal angina and coeliac artery obstruction, Vernon Larson scientific program.

Oct 1975, first annual cancer symposium at Allenmore hosp, Dr Vernon O Larson, therapeutic radiologist at Allenmore Hospital, will outline the past, present and future of radiation therapy.

Jan 1976, pictorial directory, hospital rads, Allenmore Gross, Larson, Whitney assoc, Doctors Hospital TRA, Good Samaritan glw, Lakewood glw, Mach glw, Puget Sound Hospital, George Barnes, TGH Gilbert Roller, SJH TRA.

Jan 1977, PCMS offices, George Barnes trustee and delegate and ethics, Myra Vozenilek, William Jackson public relations, tel-med Robert Whitney.

Feb 1977, hospital news, Dr William B Jackson is president elect of Puget Sound Hospital medical staff. Dr Jackson, a radiologist, has served on the Puget Sound Hospital since 1973. He received his premed from University of Oklahoma and Univ of Tulsa, graduating in 1960. He received his MD degree from Bowman Gray School of Medicine 1964. Dr Jackson interned at Portsmouth Naval Hospital, VA, from 1964 to 1966. He served as a resident in radiology at San Diego Naval Hospital from 1966 to 1969. From 1969 to 1972 he was chief of radiology at Bremerton Naval Hospital. Dr Jackson is certified by the American Board of Radiology and is a member of the American College of Radiology and the American Medical Assoc.

Mar 1977, auxiliary officers for 1978, pres Helen Whitney, pres elect Jo Roller, 4th vp and arrangement Lee Jackson.

June 1977, society changes, a public relations committee, chaired by William Jackson MD, will be investigating the possibility of resurrecting the old television program "ask your doctor", with one or more of our local television stations. In addition, Dr Jackson's committee will attempt to establish closer working relationships with our local news media. These attempts may include a medical opinion column as well as more frequent periodic press releases.

August 1977, article by William Jackson on lobbying and passage of a Bill in the legislature, SB2159, counter claim for malicious prosecution. Article discusses the movement of the Bill through the legislature and the final razor thin passage.

Oct 1977, article by William Jackson on a Bill sponsored by Washington State Medical Association on professional liability.

Dec 1977, article by William Jackson on the abcs of the con law.

Jan 1978, William Jackson trustee, public relations chr, Myra Vozenilek trustee and alt delegate, Helen Whitney trustee, George Barnes delegate, Ken Gross library, Robert Whitney tel-med.

Feb 1978, xeromammography- its use and abuse, Dr Anthony Lazar. Mar 1978, health service agency, hsa, board of directors voted 25(non physicians) to 3(physicians) that all ct scanners be hospital based.

June 1978, new president of the auxiliary Jo Roller. Other officers for 78-79, pres elect Kit Larson and corresponding secretary shirley Bourdeau, artist resource Lee Jackson

July 1978, article by Bill Jackson on bureaucratic government dishonesty and bias.

Jan 1979, PCMS officers, trustees William Jackson, Robert Whitney, and Jo Roller, legislative William Jackson, tel-med Whitney.

Apr 1979, aux, long range planning, Bernice Lazar and Helen Whitney, Lee Jackson reactivated the legislative telephone tree and artist resource.

Aug 1979, presentation on stones, Dr George Weis, radiologic nuances to diagnosing stones.

Sept 1979, Dr Bill Jackson will serve on Washington State Medical Association reference committee D as chairman at the annual meeting.

Dec 1979, PCMS officers, trustees Bob Whitney MD and Kit Larson, delegates Bob Whitney,

Jan 1980, conference on peripheral vascular disease, selective radiography for peripheral vascular disease James Kenney, panel, Bill Jackson.

May 1980, aux offices, 2nd vice president Lee Jackson, past president Kit Larson, mailing Helen Whitney, nominating Kit Larson, speakers bureau Jo Roller.

June 1980, 5 mile run, chairmen Vern and Kit Larson, people who helped, whitneys, rollers, and jacksons.

July 1980, cme boards Whitney, Flood.

Nov 1980, yoder lecture given by ben Felson MD on fundamentals in chest x-ray in the pneumonias.

1980, Charles reberger was president of PCMS. A pathologist that started the nuclear medicine department at TGH. Subsequently taken over by Roller and Jackson and TRA.

Jan 1981, PCMS offices, Myra Vozenilek sec treasurer and budget and finance, med soc tacc joint health issues Bill Jackson.

Mar 1981, symposium on trauma, body imaging trauma, ct scanning Tony Lazar, radionuclide scanning Bill Jackson, and ultrasound Bob rich.

Mar 1981, Tony Lazar named tel-med chairman.

June 1981, aux involvement again Jackson, Roller, Whitney.

Oct 1981, Vern Larson wins the Washington State Medical Association tennis tournament.

Oct 1982, discussion on what can be done about medical costs. Dr William Jackson panelist.

Feb 1983, PCMS officers, Gill Roller trustee and ethics committee.

Jan 1984, PCMS offices, Myra Vozenilek trustee.

June 1984, Jo Roller elected to Washington State Medical Association aux board.

Jan 1985, Gill Roller appointed to PCMS grievance., ethics and standards.

Jan 1985, Bill Jackson legislative contact for for art gallaghan and then Bill smitherman for several years.

June 1986, full page article in PCMS bulletin on MRI in Pierce. Coincided with van service for a . 6t magnet on Wednesday in Puyallup and at Allenmore on saturday. First MRI service.

Aug 1986, Gill Roller on panel discussion on health care contracting, representing PCMB.

Sept 1986, Livingston and Tobin join PCMS, Oct Lesh.

Nov 1986, Dr Robert B Whitney name a fellow in the American college of radiology.

Nov 1986, memorial for Myra S Vozenilek, Myra Vozenilek was born in Czechoslovakia and died in tacoma sept 11, 1986. She graduated in 1949 from the medical school O lausanne, Switzerland. She received her internship and residency training in the united states. She was a diplomate of the American board of radiology and a member of the American college of radiology. She was licensed in the state of Washington in 1956. During her first few years in this area, she practiced her specialty for various institutions and clinics. She started her private practice in lakewood in 1958. This was a difficult endeavor for a women in medicine in those days, which worked out very successfully. Myra was dedicated physician, not only professionally but also in her involvement with the medical society of Pierce County, serving two terms as secretary treasurer(1981-82) and two separate terms as trustee(77-79 and 83-85).She was naturalized us citizen and a staunch believer in this great country's international leadership role and free enterprise system. She dealt with reverse3s in her personal life in a courageous and constructive fashion in terms of various recreational and athletic activities, thus deservedly creating a broad circle of friends. She handled the final stage of her life and illness in a most courageous intelligent and dignified fashion. All of us who were her friends felt privileged to be given the opportunity to be of help and support to er, at the same time feeling so hopelessly helpless. Myra was a very special and inspiring person. She will be clearly missed. Our deepest

sympathy goes to her children, Helen and thoma. Myra, we are grateful for having had the opportunity of being your friend, colleague, and fellow citizen, and we will carry your dear memory in our hearts forever. (Myra and her husband escaped from Czechoslovakia around the time of WWII. He was ob gyn in Tacoma. She was on the staff at Lakewood when it first opened and later Gross took over. She had a small office on the edge of present shopping center in lakewood. She developed lymphoma and Bill Rohner established a friendship when he did her radiation therapy. She continued in her office practice for several years and cut back to 3 days a week later for part time. She was an avid tennis player. Tacoma Radiology took over her practice when she retired which accounts for TRA presence. The present imaging center in lakewood is no more than 6 blocks from her previous location.

Jan 1987, Robert Livingston and Richard Tobin approved for membership.

Feb 1987, PCMS offices, William Jackson president elect, Robert Whitney sec-treas and budget and finance.

Sept 1987, Washington State Medical Association meeting delegates, Jackson and Whitney, alt del Roller.

Oct 1987, Thomas Dumler applies to medical society.

Jan 1988, Bill Jackson assumes presidency of PCMS. Dr Jackson said he was looking forward to celebrating the society's centennial year as president and was concerned in maintaining the traditional values of medicine with emphasis on quality and access of care.

Une 1988, John Gallucci, radiation oncology, born Tacoma 7/24, 34, med school, marquette univ, 1959, intern Madigan, 1960, residency Oregon health sci univ, 1966, DIN.

Aug 1988, committees, Jackson president, trustee, exec comm, library, Roller ethics.

Jan 1989, annual meeting Dr whitnery recognized for leading the mbi board and Dr Jackson for year as president of PCMS. New board of trustees includes Dr Tony Lazar.

Jan 1989, Dr Drew Deutsch and Mark Yuhasz approved as new members. Mark Yuhasz applied Aug 1988, born bethlehem, penn, 7/15/56, med school, Univ. of penn 1983, intern allentown affil hosps, 1984, rad residency, univ of az, 1987, grad training, 1988. TRA

July 1989, Dr Dan H Martin applies for membership. Born in inglewood, Calif, 12/21/1948, med school, Univ. of nev, 1977, intern and residency, newton welllesley hosp 1980, fellow Univ. of sc 1987, DIN.

Nov 1989, Dr Jackson presents testimony to Tacoma city council to approve ems proposed by PCMS. Also Jackson delegate at Washington State Medical Association convention.

Jan 1990, board of trustees PCMS Dr Lazar, grievance comm Jackson.

June 1990, Lawrence R Froid MD applies for membership. Born Michigan, 9/24/59, med school, loma linda med 1985, intern and residency loma linda, fellowship loma linda, 1990, DIN.

July 1990, membership applicants, John H Peixotto MD, and Randolph K Otto MD.

July 1990, John Peixotto MD, med school, Univ. of Vermont, intern 1978, pediatric residency, Walter reed army, board certified in peds 1983 and practiced at ft rucker, alabama, returned to Walter reed for radiology residency completed 1988. TRA

Randy Otto MD. Born Michigan 4/06/1960, med school, Univ. of Michigan, 1985, internship William beaumont hospital, 1985, rad residency, Univ. of Texas, 1990, ped rad fellow children's med center, Seattle, TRA

Sept 1990, Richard Tobin MD name the clinical professor of the year for dept of radiology at uw.

July 1991, applicant to PCMS Arthur D Graham MD. Born pueblo, Calif, med school Univ. of colo, 1958, intern hc moffet hosp, 1959, residency Fitzsimmons army, 1965, board cert 1966, American board of medical management, 1989. Va Medical Center.

Aug 1991, applicant Don W Hebard radiation oncology. Born nebraska city, ne, 5/9/42, med school, temple univ 1968, intern vm med clinic, 1969, residency in radiation oncology vm/ univ of W, 1973, ABR cert,

Mar 1992, applicant randall K Peterson MD, dx rad TRA, born 9/25/58. Med school, John hopkins, 1984, Barnes hosp uw 1986, rad res u of mich 1990, board cert 1991 rad.

July 1992, radiologists brian Burgoyne MD, dx rad, med school, usc, intern and residency u cal irvine/va hosp, fellow lac/usc imaging science center, DIN.

July 1992, Alison Reinold-Carter MD, med school ucls, intern, rad residency and fellow lac-usc. DIN

July 1992, Tod Wurst MD, med school Univ. of Connecticut med school, intern hosp of St raphael, new have, ct, residency and fellow in interventional radiology nyu Medical Center.

Aug 1992, memoriam, John R Flynn MD, 12/24/1906 to 6/20/1992, by leo Annest MD, John R Flynn was taken away by our lord. The transition from his natural to supernatural life was sudden and complete. He collapsed suddenly while walking at the Tacoma mall in the morning of June 20, 1992. John was the oldest of four children born to Dr and Mrs Andrew Flynn. His father was an irish immigrant who originally entered into a seminary and later became a doctor of medicine. He was a practicing physician and surgeon in Tacoma. John attended holy rosary grade school, St leo's high school in Tacoma, gonzaga university and received his MD from creighton university med school in 1934. He interned at St Joseph Hospital in Tacoma and practiced general medicine in the Tacoma area from 1935 to 1940. In 1940 John was the first physician from Tacoma to enter into any branch of the armed services. He enlisted in the navy medical corps and was assigned the position of flight surgeon at pensacola, Florida. Then, he was stationed at sanpoint naval station in Seattle. In Feb, 1943, John married Patricia Phillips from Olympia. In April, 1943, he was sent to the soloman islands in the pacific, where he was assigned as naval flight surgeon for the marine corp. After his discharge from the navy, John and Pat went to Chicago where he entered into a radiology residency. He was certified by the ABR. From 1948 to 1950 John practiced his specialty in longview, Washington. In 1950, he and his family moved to Tacoma where he became associated with radiologist Dr R D Macrae and later with Dr Frank Rigos. He was the one of the founders of the radiologist group that enlarged over time and is today known as Tacoma radiological associates. John Flynn MD, was a very

excellent and competent radiologist. He was a great help to me and to many others all through the years of his service. John and Pat had four children, two boys and two girls, mi hael, danny, patty, and sheila. Danny was killed in action in the vietnam war in 1970. Michael lives in portland, patty in las vegas, and sheila in Tacoma. John, with Pat, was very concerned, supportive and devoted to their children, six grandson, and one granddaughter. John was a wonderful husband, father , grandfather and friend to everyone. He loved and understood people. He was always cheerful, jovial, and witty. He lived a good life to the very end. He is greatly missed by his family and all of us who knew and were closely associated with him. (Bill Jackson: when I came to Tacoma in 1972 John Flynn and the others in the group, particularly Rigos and Rohner were involved in a lawsuit that had drug on for 2-3 years. Although I don't know all the details he was 62 years old and the other two mentioned wanted him to retire. There was no contract for partners at that time and it ended up that Flynn ended up in the office at the medical ctr off of 11th and K St, now known as MLK, which allegedly was what they had offered him originally. At any rate that was when TRA first had contracts for new partners)

Dec 1992, francis Wessbecher MD, med school, johns hopkins univ, intern overlook hospital, residency yale, new haven, fellow neuroradiology, Univ. of Wash. TRA

May 1993, franciscan health systems buys Western Clinic.

June 1993, eric Bjarke MD, med school loma linda, MD, intern, residency, fellow in body imaging Oregon health science, DIN

June 199, Michael rignon MD, med school University of Washington, intern delaware Medical Center, residency hackensack Medical Center, fellow in body imaging ucsf, DIN

July 1993, dean Mastras MD, radiation oncology, med school, univ of vermont, intern univ of hawaii, residency University of Washington.

May 1994, memoriam Joseph Kramer MD, written by Michael Mikkelson MD, his partner in an office practice in Puyallup. We were shocked and saddened by the untimely death of our friend and colleague Dr Joseph Cramer on Jan 28, 1994. Joe was born in Olympia on sept 21, 1934, and lived in the area until graduation from St Martin's college in 1955. So he knew the area well and was full of stories about the old days in Washington. After graduation from St Louis Univ. med school in 1959, he interned at san joaquin general hospital in stockton, Calif, and then spent 10 years in the united states army where he did his radiology residency. Two years at the united states army hospital in igloo, south Dakota, and three years at the army hospital at camp zama, Japan, supplied him with more interesting stories, with which he entertained us over the years. Joe was an avid sailor and loved to spend a few weeks every summer sailing through the san juan islands with wife maureen. Among his other hobbies were skeet shooting and duck hunting, and he was an expert with a shotgun. Joe loved practicing radiology, and had no intention of ever retiring. It was a privilege and pleasure for me to practice with him for almost 20 years, and life can never be quite as good without him. He had the ability to make everyone around him feel at ease with his salt-of-the-earth personality. He was a member of ama, Washington State Medical Association, pcma, acr, wsr and the norwest radiological society. He is survived by his wife maureen, daughters Mary, colleen, Barbara, ann, katherine and son edward. (bj joe was an outgoing man and I ran into him at several society meetings. Always easy to talk to, laughing, pleasant. Was kind of a "good old boy who enjoyed life". Jarvis and Sames who are mentioned earlier in the radiology history had a office in Puyallup which joe and

mike mikkelson took over in the late 70s. Don't know if they practiced in any of the local hospitals)

May 1994, Helen Whitney, wife of Bob becomes president of the Washington state alliance, previously auxiliary.

July 1994, Dr Gilbert Roller retires, Gill practiced radiology in Iowa and came to Tacoma in around 1970 to practice with two other radiologists from Iowa, Bill Rohner and George Barnes, we called them the Iowa mafia. He retired from TRA around 1985. He became the chief of radiology at TGH in 1973 and served for 10 years. Was very effective politically and served as president of the medical staff. Was very influential in getting the contract for nuclear medicine when the pathologist Charlie reberger left TG. Also got radiation oncology transferred from TRA to a full time radiation oncologist, Howard Wong. First ct, emi, in Washington state was by his vision and effort. Became the medical director for PCMB, now Regence, after he left TRA. Was part of staffing of St Francis when it opened and worked as an employee at TRA after his retirement. Very compassionate man and hard worker. Great guy, had the misfortune to develop CLL and died as a complication of pneumonia. Gil had 5 children by his first wife Lois and was step father to his second wife's three children. His second wife, Jo, was very involved in the medical auxiliary affairs and as a counselor served on the impaired physician committee.

Mar 1995, Dr Whitney retires, graduated from Yale Univ in 1959, intern and radiology residency at Univ of Minnesota and VA Hosp in Minneapolis. Began in Tacoma in 1965 and later joined Larson and Gross to form what was Gross, Larson, and Whitney which became Diagnostic Imaging Northwest. Dr Whitney served in many professional capacities while practicing medicine. A few include sec-treas of PCMS, trustee and Washington State Medical Association delegate. He also served as the president of MBI.

May 1995, Howard Wong MD receives award-Dr Howard H Wong will receive the first gold medal of the American College of Radiation Oncology at its annual meeting in Washington DC on May 6, 1995. The gold medal is being awarded to Dr Wong for his long-standing leadership and dedication to the development of the American College of Radiation Oncology and for his continuing leadership during the early days in the development of the college and its programs. Dr Wong received his medical degree in 1956 from the Univ of Minnesota. He completed a residency in OB-GYN and radiation oncology. He was the director of radiation oncology at TGH from 1974-1979. Has served as a UW faculty member since 1978 and was board certified in OGYN in 1967 and radiation oncology in 1973. The award recognized the significant and important role that he has played in this organization but, also for his contribution in radiation oncology and medicine.

Jan 1996, PCMS officers, Andrew Levine MD trustee,

June 1996, memorial for Kenneth Gross MD, business partner and friend by Vern Larson. Kenneth E Gross MD passed away on Tuesday, May 7, 1996 at his home in Tacoma. He was 76 years old and is survived by his wife, Keaty, a son, Fred, of Denver, Colorado, daughter, Karen Sherman of Lake Oswego, Oregon and four grandchildren. His youngest son, Robert, predeceased him in a tragic skiing accident. Ken died of metastatic cancer a relatively short time after its discovery. Ken was born in Newark, New Jersey and reared in Union, New Jersey. He went to undergraduate school and medical school at Dartmouth and graduated from the University of Pennsylvania medical school in 1943. His radiology residency was in Boston at

Peter bent Brigham and new England deaconess hospitals, as well as boston's children medical center. His career included service in the united state army pacific theater in world war ii prior to his radiology residency. Following his radiology training, he moved to spokane to practice radiology. This was followed by a move to Tacoma in 1949. Eventually he formed a partnership with Steve Sanderson MD. They had offices in the Medical Arts Building and the Tacoma Medical Center. They also practiced at Mary Bridge children's hospital and the Washington Minor Hospital in the Medical Arts Building. The minor hospital was the precursor of Allenmore Hospital. The fledging lakewood general hospital then became one of "their" hospitals when it opened its doors in 1961. Due to the untimely and sudden demise of Dr danderson in March 1962, there was an opening for a radiologist in Tacoma and I joined Ken in July of 1962. A great many new and wonderful things happened in radiology in the years that followed. Ken was also keenly interested in being at the forefront of technological advancement as well as wanting medicine to be practiced as perfectly as possible. Ken was instrumental in seeing that radiologic technologists were skillfully trained in Tacoma. In the early years, technologists were trained in our offices and later in the area hospitals. Many new modalities for diagnosis of disease were developed during Ken

S practicing career and it was necessary of course to learn all of the new procedures and techniques. Ken was never content to rest on his laurels. He wrote papers, gave lectures and taught the residents at the University of Washington med school where he was a clinical professor. He served on innumerable committees at the hospitals and with organizations with which he was associated. Radiology underwent massive changes during his career. Modalities that developed were angiography, nuclear medicine, ultrasound, ct, and MRI. The group became Gross, Larson, Whitney and assoc.. The next rad Dr Pliskow referred to himself as Dr associate. At the time of Ken's retirement in 1987 the group had expanded to 13 radiologists covering 5 hospitals and five offices. At that time the name was changed to diagnostic imaging northwest. Ken had many interests outside radiology. He enjoyed duck hunting, fishing, photography, painting and especially travel. He also played tennis and skiing until the untimely development of cataracts at about age 55. After surgery he returned to practice. Ken was very serious about the practice of medicine. He worked extremely hard and was very bright. On social occasions he was a lot of fun. Ken was a member of the PCMS, Washington State Medical Association, wsr, pacific coast society of radiology, RSNA, ARRS, amer college of nuc med, and acr where he received the degree of fellowship. He also belonged to assoc of pediatric radiologist, pacific nw soc for ped radiology Tacoma surgical club, and pac nw radiology society. A long time member of the lion's club where he served as president. He also served as president of the pacific nw ski assoc. I learned a lot from Ken. I will Miss him very much. He will also be greatly missed by his family and many friends.

July 1996, Howard Wong MD, 1931-1996, his contributions will live on by Roger Lee. Howard Wong MD passed away on Tuesday, May 28, 1996. Howard was fourth generation American of Chinese ancestry born in Minneapolis, Minnesota. He was one of ten children reared to work hard and study hard. As a boy, he worked in the family restaurant business saving his money to someday attend college. Howard was an honor student in high school who went on to earn his bachelor of science and MD degrees from the university of Minnesota. He first specialized in obstetrics and gynecology and practiced this specialty for twelve years in toledo, Ohio. Howard returned to academia to do a second residency in radiation oncology. Howard married his high school sweetheart, Barbara, and together reared five fine sons. Probably one of the only things Howard lacked was an x chromosome! In 1974, Howard, Barbara and sons came to Tacoma. Here he founded and was director of Tacoma radiation oncology center. He was a founding fellow of the American college of radiation oncology

(ACRO) and a past chairman. He was the first gold medal recipient from ACRO in 1995 for his accomplishments in radiation oncology. Howard was a civic minded member of our community dedicating service to rotary#8, the Horace mann masonic lodge and the afifi shriners. He was also a past president of Tacoma's American cancer society. When Howard had free time, he truly enjoyed the game of golf. One of his Dreams was to be able to play golf everyday. So in 1991, when Howard retired from his practice, he and Barbara built a winter home in sun city west, Arizona. There he became active with the roving rotarians and the sun cities museum of art as well as realizing his Dream to play golf whenever he wanted. However, his self indulgence in daily golf lasted just two years when the university of colorado's school of medicine called on Howard to help reorganize their department of radiation oncology. Never one to turn down a challenge , Howard agreed to one year as their interim chairman. After one year, he agreed to stay on. He and Barbara had just built a new home in the Denver area and it was there that he fatally suffered his first and only massive heart attack. Barbara was at his side. Howard will be missed. In some way he touched the lives of so many of us. He leaves behind a legacy of great humanity, tireless enthusiasm, dedication, contribution and accomplishment that will live on and on.

July 1996, Drs Michael Soronen, Thomas K Jones, Don Hebard and dean mastra announce accreditation of the three center run by Tacoma radiation oncology.

Aug 1996, Philip B Gunther MD, med school univ of colorado, intern presbyterian/St lukes Medical Center, residency univ of colorado, fellow mallinckrodt. DIN

Aug 1996, Anne L Peterson, med school univ of Wisconsin-madison, residency bowmangray school of medicine, fellowship med college of Wisconsin. DIN

Sept 1996, new college of med education, Tod Wurst.

Oct 1996, trustee profile on Andy Levine.

May 1997, Allen au and louis Bernhardi, apply for membership , addresses in Puyallup at 8112 112th St ct E. Previously had been part of federal way radiology.

Feb 1998, Edmund Lewis retires. 1981 to retirement Feb 1998. Ed previously practiced in spokane and was an interventionalist. After leaving TRA he did locums work around the country.

Apr 1998, Eric Fisher MD, med school tufts univ school med, intern, residency, and post graduate training univ of med, DIN.

Sept 1998, Mike Dowd, med school univ of Chicago, intern swedish Medical Center, residency and fellowship in interventional radiology univ of med, TRA

Sept 1998, Erik Elam, med school loyola stritch, intern sinai hospital of baltimore, residency univ of Arizona, fellow in msk, ucsf, TRA.

Sept 1998, Khai Tran, med school Dartmouth, intern hitchcock Medical Center, residency univ of Washington, fellow in mammo and women's imaging brigham and women's hospitals, TRA.

June 1999, Benjamin G Gordon, med school med college of Wisconsin, intern vm hospital, residency and fellow in interventional radiology Univ. of Washington, TRA.

June 1999, Shireen E Khan, med school univ of Washington, intern county Medical Center, residency univ of Minnesota, fellow in pediatric radiology, children's in Seattle., TRA.

Dec 1999, Randy Sorum, radiation oncology, Tacoma and valley radiation.

Aug 2000, Jill Dobbins, University of Washington med school, intern and residency loma linda, fellowship childrens hospital of los angeles. TRA and DIN.

Aug 2000, Jana L Fahmy MD, med school, intern and residency at loma linda, fellowship in pediatric radiology childrens hospital of los angeles. TRA.

Jan 2001, Dr Drew Deutsch, board of trustees of PCMS.

July 2001, Howard Sun, med school univ of Illinois, intern swedish hospital, residency and fellowship in interventional radiology Univ. of Washington, TRA.

Oct 2001, mbi, Drew Deutsch president.

May 2002, uhng-kyu Robert Shim MD, med school med coll of Wisconsin, intern la county ucs Medical Center, residency Rochester gen hosp, fellowship University of Washington, DIN.

May 2002, Tien Ahn Wee MD, med school Columbia univ, intern univ of hawaii, residency univ of cal davis, fellowship memorial MRI center.DIN

May 2002, justin K Yoon, med school virginia commonwealth univ, intern georgetown univ Medical Center, residency and fellow in interventional radiology univ of Washington, TRA.

July 2002, Robert Shim MD, med school med college of Wisconsin, intern la county scs, residency Rochester gen hosp, fellowship univ of Washington.

Alexander D Serra MD, med school cornell univ, intern greenwich hosp, residency univ of colorado, fellowship ucsf. Solo practitioner first at cdi and then in Puyallup.

Aug 2002, Alan pearson MD, med school uniformed services, intern and resident Madigan army hospital., DIN.

Sept 2002, David Davidson MD, med school univ of Washington, residency univ of Oklahoma, fellowsp univ of Massachusetts. DIN.

Jan 2003, Drew Deutsch continues as president of mbi.

Feb 2003, Kenneth S Bergman MD, radiation oncology, tac rad onc.

Sept 2003, Amber F Hsiao MD, med school, intern, and residency northwestern univ, fellowship women's hosp., DIN.

Mar 2004, Londe A Aichardson MD, med school yale univ, intern univ of Washington, residency and fellowship univ of texas, DIN.

Mar 2004, David E shook MD, med school creighton univ intern univ of missouri, residency univ of colorado, fellowship Mayo clinic, DIN.

Mar 2004, Drew Deutsch recognized for presidency of mbi from 1999 through 2003.

June 2004, Stan Cheng MD, med school nyu, intern swedish Medical Center, residency and fellow in msk University of Washington, TRA.

June 2004, Jill D Robinson MD, med school, intern, and residency univ of ca, irvine, TRA.

June 2004, Berndt P Schmit, med school tufts univ, intern and residency univ of Arizona, residency mount auburn hospital, fellow in msk brigham and women's hosp, TRA.

June 2004, Charles E wang MD, tufts med school, intern cleveland clinic, residency univ of Massachusetts Medical Center, fellowship Mayo clinic and tufts new england Medical Center, min/DIN.

July 2004, Peter P Chuang MD, med school univ of Minnesota, intern ucsd Medical Center, residency Barnes jewish hospital, fellow in neuroradiology univ of Washington. TRA.

Jan 2005, Herbert L wang MD, radiation oncology, Tacoma radiation oncology.

Jan 2005, Drew Deutsch is no longer on the mbi board.

Dec 2005, Christian H Nguyen MD, med school, intern, and residency univ of Minnesota, fellowship Mayo clinic. Min/DIN.

Dec 2005, Helen H Shigemitsu MD, med school nyu, intern ucsf, residency montefiore Medical Center and loma linda, fellowship ucsd, DIN/min.

Dec 2005, Spencer E Wang MD, med school tufts, intern kaiser Medical Center, residency and fellowship univ of Florida. DIN/min.

Oct 2006, Jorge M Medina MD, med school univ central del caribe, internist Elizabeth Medical Center, residency mt sinai Medical Center, fellow boston univ Medical Center, min/DIN.

Nov 2006, Jonathan M Kell MD, univ of wisconsin med school, intern St Joseph mercy osp, residency and fellowship suny ypstate med univ. Min/DIN.

Feb 2007, Roderick Saxey MD, med school George wash univ, intern and residency David grant usaf Medical Center. Min/DIN.

Sept 2007, Timothy B Johnson do, med school west virginia school of osteopathy, intern and residency geisinger Medical Center, fellowship northwestern university. Min/DIN.

Nov 2007 Robert L Gutierrez MD, med school univ of Washington, intern swedish Medical Center, residency and fellowship in mammo and woman's med univ of Washington, TRA.

Nov 2007, Brian R Kott MD, med school med coll of penn, intern and residency univ of Washington, fellow in neurointerventional radiology uw harborview. TRA.

Nov 2007, Sam S Liu MD, med school univ of penn, intern St Joseph Hospital, syracuse, residency beth israel deaconess, fellowship Harvard, TRA.

Nov 2007, Douglas B Moore pa-C, training quinnipiac univ, TRA.

Nov 2007, Jason S Oliphant MD, med school yale univ, intern hospital of St raphael, residency and fellowship in msk mallinekrodt inst of rad, TRA.

Nov 2007, Amaya Ormazabal MD, med school univ of texas, intern swedish medical, residency University of Washington, fellowship pediatric radiology, TRA.

Nov 2007 Lawrence D Tang MD, med school Washington univ, intern Barnes jewish hosp, residency and fellowship in msk mallinkrodt inst of rad, TRA.

Dec 2007, Jason W Allen MD, med school, intern, residency and fellowship in neuroradiology nyu. TRA.

Dec 2007, Charles R Leusner MD, med school University of Washington, intern and residency maine Medical Center, fellowship in interventional radiology univ of iowa, TRA.

Dec 2007, Arvind Nehra MD, med school New York med college, intern macneal hosp, residency harbor ucla Medical Center, fellowship in neurointerventional radiology Washington university. TRA.

Dec 2007, Anand Suresh MD, med school St Louis university, intern St John's mercy Medical Center, residency univ of Washington, msk fellowship mallinckrodt inst of radiology, TRA.

Dec 2007, Joseph W Sam MD, med school and intern Albert eistein Medical Center, residency and fellowship in nuclear medicine univ of penn hosp, TRA.

Dec 2007, Aaron J Zima MD, med school univ of Michigan, intern St Joseph mercy hosp, residency and fellowship Univ. of Michigan. TRA.