Norman A. Baily Papers

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Descriptive Summary
Languages: English
Contributing Institution: Special Collections & Archives, UC San Diego
9500 Gilman Drive
La Jolla 92093-0175
Title: Norman A. Baily Papers
Identifier/Call Number: MSS 0233
Physical Description: 6.8 Linear feet (17 archives boxes)
Date (inclusive): 1947 - 1992
Abstract: Papers of Norman Arthur Baily (1915-1992), medical physicist, who devoted his career to radiological physics and engineering, focusing on medical imaging, experimental and theoretical work in dosimetry, and therapeutic uses of radiology. The collection includes memos and correspondence relating to medical physics organizations and Baily's editorial work for Medical Physics, lecture notes for his teaching at UC San Diego, and drafts and reprints.
Scope and Content of Collection
Papers of Norman Arthur Baily (1915-1992), medical physicist, who devoted his career to radiological physics and engineering, focusing on medical imaging, experimental and theoretical work in dosimetry, and therapeutic uses of radiology. The collection includes memos and correspondence relating to medical physics organizations and Baily's editorial work for Medical Physics, lecture notes for his teaching at UC San Diego, and drafts and reprints. There is little documentation of Baily's work at Columbia and Emory universities, of his military employment with NASA and Hughes Aircraft, or of his involvement in the Medical Physics Program at UCLA (1952-1967). The collection does provide thorough documentation of Baily's career at UC San Diego, beginning in 1968 when he accepted the position of Professor of Radiology and Chief of Radiological Physics and Engineering at the UCSD School of Medicine. Arranged in six series: 1) BIOGRAPHICAL, 2) CORRESPONDENCE, 3) WRITINGS AND RESEARCH, 4) TEACHING, 5) ORGANIZATIONS, and 6) CONSULTING.
Biography
Norman Arthur Baily (1915-1992), was born in New York. He completed a B.A. in science at St. John's University in 1941, an M.A. in education at New York University in 1943, and a Ph.D. in physics at Columbia University in 1952. Baily devoted his career to radiological physics and engineering. He was recognized as having made equally strong contributions to research, teaching, and the medical physics profession. His research focused on the use of diagnostic tools for obtaining images of organs and their functions, particularly those using ultrasound which avoided the use of ionizing radiation, and for improving the safety of techniques that did require ionizing radiation.
His first academic appointment was at the University of Buffalo where he was an associate of the Radiology Department (1954-1959) and assistant research professor of biophysics (1957-1959). He was also chief physicist and principal cancer research scientist in the Radiation Therapy Department of Buffalo's Roswell Park Memorial Institute (1954-1995). In addition, Baily was lecturer in the Chemistry Department at Canisius College during this same period (1957-1995). He left Buffalo for Los Angeles to become manager of the Space Sciences Department, Hughes Research Laboratories (1959-1967), becoming concurrently employed from 1964-1968 in UCLA's Radiology Department as clinical professor and professor-in-residence. He spent 1967 at Emory University as professor of physics and radiology.
In 1968, Baily came to UCSD and served as Professor of Radiology and Chief of the Division of Radiological Physics and Engineering until 1988 when he retired with the distinction of emeritus professor. His research was supported by grants from the National Aeronautics and Space Administration (1968-1973; 1973-1975), the Atomic Energy Commission (1974-1975), and the National Institutes of Health (1975-1978). Throughout the 1970s and 1980s Baily held several visiting professorships of nuclear research and oncology.
Baily made considerable contributions to the professional community of medical physics, most notably by his participation in the American College of Radiology and the American Association of Physicists in Medicine (AAPM), to which he was elected a fellow in 1988. He helped found the AAPM's Southern California Chapter and was acknowledged for his contributions in 1986 with the creation of the Norman A. Baily Student Research Award. Perhaps more profound and far reaching were his efforts in establishing standards for state licensing of medical physicists, the development of quality assurance for use of radiological equipment, and the training of medical physicists.
Baily was an associate editor of Medical Physics from its inception in 1976 until his death. He served on at least 70 committees related to both education and safety in radiation physics. He published more than 200 articles on nuclear medicine, radiation oncology, and diagnostic imaging between 1947 and 1992.
Publication Rights
Publication rights are held by the creator of the collection.

Preferred Citation
Norman A. Baily Papers, MSS 233. Special Collections & Archives, UC San Diego.

Acquisition Information
Acquired 1992

OFF-SITE STORAGE
COLLECTION STORED OFF-SITE. ALLOW ONE WEEK FOR RETRIEVAL OF MATERIALS.

Subjects and Indexing Terms
Radiology, medical -- Study and teaching
Medical physics -- Study and teaching
Oncology
Quality assurance
Diagnostic imaging
Radiation dosimetry
Radiotherapy
Echocardiography
Baily, Norman -- Archives
American Association of Physicists in Medicine
United States. National Aeronautics and Space Administration
University of California, San Diego -- Faculty -- Archives
University of California, San Diego. Medical Center -- Faculty -- Archives

BIOGRAPHICAL
Scope and Content of Series
Series 1) BIOGRAPHICAL: Contains Baily's applications for passports and personal statements that are rich in familial as well as personal data. His folders entitled "Personal" and "Salary Plan" include his bibliography, awards and honors he received over the years, and his personnel file from UCSD.

Box 1, Folder 1 Applications and personal statements 1970 - 1972
Box 1, Folder 2 Certificates 1981 - 1989
Box 1, Folder 3 General Information 1989 - 1990
Box 1, Folder 4 Personal - Bibliography, Awards and Honors 1953 - 1992
Box 1, Folder 5 Salary Plan - Personnel File 1974 - 1987

CORRESPONDENCE
Scope and Content of Series
Series 2) CORRESPONDENCE: Correspondence in this collection roughly dates from the mid-1960s to 1992, with the heaviest concentration of letters dating from the early 1980s. The correspondence in this series represents Baily's work at UC San Diego as a professor and as an editor/referee to numerous professional journals. The letters in this collection are arranged alphabetically by last name of correspondent. Baily's outgoing correspondence has been separated and is filed in chronological order.

Incoming, A-Z
Box 1, Folder 6 Acoustical - Bronic
Box 1, Folder 7 California State University, Los Angeles - Greenfield
Box 2, Folder 1 Harrison - Notea
CORRESPONDENCE
Incoming, A-Z

| Box 2, Folder 2 | Palade - Rosengren |
| Box 2, Folder 3 | Schlegel - Zaidi |

Outgoing, Chronological

| Box 2, Folder 4 | Outgoing correspondence 1978 - 1985 |
| Box 2, Folder 5 | Outgoing correspondence 1986 - 1992 |

Unidentifiable

| Box 2, Folder 6 | Unidentified correspondence |

WRITINGS AND RESEARCH

Scope and Content of Series

Material in subseries F) is arranged alphabetically by journal title. Baily served as a referee for many journals. He was an Associate Editor of MEDICAL PHYSICS from its inception and was the only editor to have served over the entire period of its existence. Other journals Baily served as reviewer for were the AMERICAN JOURNAL OF ROENTGENOLOGY, IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, IEEE TRANSACTIONS ON MEDICAL IMAGING, NUCLEAR TECHNOLOGY, and S.P.I.E. The material includes Baily's comments concerning manuscripts, MEDICAL PHYSICS editorial board meeting minutes, and correspondence, but very few manuscripts.

Notes

| Box 2, Folder 7 | Absorption coefficients |
| Box 2, Folder 8 | Decay charts |
| Box 2, Folder 9 | Dosage calculations for Bookstein |
| Box 2, Folder 10 | Dosage - isotopes |
| Box 2, Folder 11 | Extreme exposures, C.G.K. Senogrape |
| Box 2, Folder 12 | Film/screen tests |
| Box 3, Folder 1 | Film/screens Res. |
| Box 3, Folder 2 | Hi-PWS + Cronex - 6+ |
| Box 3, Folder 3 | Holography computer - Lee/Burckhardt hologram coding notes |
| Box 3, Folder 4 | Kampp - Step wedge data 1986 |
| Box 3, Folder 5 | Mag. focal spot size |
| Box 3, Folder 6 | Miscellaneous |

| Box 3, Folder 7 | Portal Imaging 1983 - 1990 |

| Box 3, Folder 8 | Portal Imaging 1991 |

<p>| Box 3, Folder 9 | Purchase Speculations for X-ray Tubes and Image Intensifiers |
| Box 3, Folder 10 | Soft X-rays - Day, Frank H. |
| Box 3, Folder 11 | Support Thickness 3 |</p>
<table>
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<th>Box 3, Folder 12</th>
<th>VII ICMP 1985</th>
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**Laboratory Notebooks**

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<tr>
<th>Box 3, Folder 13</th>
<th>Bubble Chamber notebook</th>
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<td>General note</td>
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<td></td>
<td>Post 1958 - notes from articles, 29 lvs.</td>
</tr>
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| Box 3, Folder 14 | Laboratory notebook, 1960-1974 1960 - 1974 |
| Box 4, Folder 15 | Laboratory notebook, Earl Raeburn - 1973 1973 |
|                  | General note             |
|                  | Including photos, 22 lvs. |

**Proposals**

<table>
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<tr>
<th>Box 4, Folder 2</th>
<th>Gruber Proposal - &quot;AICA Riboside Treatment of Central Nervous System Disease&quot; 1984</th>
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<tr>
<td>Box 4, Folder 3</td>
<td>Holography Proposal - &quot;Holographic Display of Tomographic Body Sections&quot; 1984</td>
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<td>Box 4, Folder 4</td>
<td>NIH Nanometer Microdosimetry - &quot;Microdosimetry of Nanometer Regions&quot; 1981 - 1982</td>
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<td>Box 4, Folder 5</td>
<td>Program Project - &quot;Common Problems in Medical Imaging&quot; 1983 - 1984</td>
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**Typescripts, Abstracts and Background Material**

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<tr>
<th>Box 4, Folder 6</th>
<th>The Influence of Treatment Cones on Dose Rate - reprint and graphs 1957</th>
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<td>Box 4, Folder 7</td>
<td>Depth Dose Studies Using Monoenergetic Protons 1966</td>
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<tr>
<td>Box 4, Folder 8</td>
<td>Performance of a Large Screen Fluoroscopic Imaging System - SPIE 1973</td>
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<td>Box 4, Folder 9</td>
<td>Performance of a Large Screen Fluoroscopic Imaging System - Sunrise Film Screen 1973</td>
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<td>Box 4, Folder 10</td>
<td>Performance of a Large Screen Fluoroscopic Imaging System - Test Results MTF 1973</td>
</tr>
<tr>
<td>Box 4, Folder 11</td>
<td>Capabilities of Fluoroscopic Systems for Trans-axial Tomography Invest. Radiol. 1976</td>
</tr>
<tr>
<td>Box 4, Folder 12</td>
<td>C.T. # Data - Lab results and calc.</td>
</tr>
<tr>
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<td>General note</td>
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<tr>
<td></td>
<td>Notes re: &quot;The Capability of Fluoroscopic Syst. for the Prod. of Computerized Axial Tomograms&quot; - 7/2/84; 3/16/83</td>
</tr>
<tr>
<td>Box 4, Folder 13</td>
<td>Fluoro. CAT vs. EMI Head SPIE - &quot;Physical Comparison of a Fluoroscopic CAT... 1976</td>
</tr>
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<td>General note</td>
</tr>
<tr>
<td></td>
<td>Rest of title: ...System and the EMI Head Scanner</td>
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</tbody>
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<th>Box 4, Folder 14</th>
<th>Proposed Recommendations for Quality Assurance in Radiation Therapy 1979</th>
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<td>Box 5, Folder 1</td>
<td>Digitized Longitudinal Tomography - Digital Tomography Investigative Radiology 1981</td>
</tr>
<tr>
<td>Box 5, Folder 2</td>
<td>Relationship of Quantum and Electronic Noise in Determining Gray Scale... 1982</td>
</tr>
<tr>
<td></td>
<td>General note</td>
</tr>
<tr>
<td></td>
<td>Rest of title: ...Capability of Digital Radiographic Systems</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Box 5, Folder 3</th>
<th>Some Aspects and Applications of Digitized Fluoroscopic Imaging 1982</th>
</tr>
</thead>
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<tr>
<td>Box 5, Folder 4</td>
<td>Comparison of Survival Curves Generated by a Model Based on Micro-Nanodosimetry 1983</td>
</tr>
</tbody>
</table>
| Box 5, Folder 5 | Quantum Noise in Detectors - Med. Phys. (D. Rimkus co-author) 1984
|                | General note
|                | Rest of title: ...Radiographic/Fluoroscopic Clinical Equipment

| Box 5, Folder 6 | Inconsistencies and Deficiencies of Specifications for Digital... 1984
|                | General note

| Box 5, Folder 7 | Predicting Gallstone Dissolution Hepatotoxicity, and... Schwartz, et al 1984
|                | General note

| Box 5, Folder 8 | Some Possible Problems Assoc. with Radiographic/ Fluoroscopic Clinical Equipment 1984
|                | General note
|                | Submitted to Medical Physics (Tech. notes)

| Box 5, Folder 9 | Chest Radiography-Stationary Grid Orientation - Sargent, Lee, and Baily 1985
| Box 5, Folder 10 | Digital Tomosynthesis: Phantom and Patient Studies with a Prototype Unit 1985
| Box 5, Folder 11 | Digital Tomosynthesis: Preliminary Patient Studies 1985
| Box 5, Folder 12 | Patient Couch and Air Gap Effects in X-Ray Computed Tomography 1985
|                | General note
|                | Andre, Baily, Mattrey.

| Box 5, Folder 13 | Some Factors Which Determine the True Performance of Digital... 1985
|                | General note
|                | Rest of title: ...Radiographic/Fluoroscopic Clinical Equipment

| Box 5, Folder 14 | The Generation of Acoustic Waves by Ionizing Radiations 1986
| Box 5, Folder 15 | Radiation Effects: A Model Based on the Statistics of Energy Deposition... 1986
|                | General note
|                | Rest of title: ...by Charged Particles

| Box 5, Folder 16 | Tomosynthesis Using a Back Projection Method for Reconstruction... 1986
|                | General note
|                | Rest of title: ...of Desired Planes

| Box 5, Folder 17 | The Generation of Acoustic Waves by Ionizing Radiation 1987
| Box 5, Folder 18 | Physics Conference 1988
|                | General note
|                | "Conventional Tomography" and "Q.A. in Diagnostic and Nuclear Radiology"

| Box 5, Folder 19 | RRS abstract - "A New Approach to the Study of Track Structure 1992
|                | General note

| Box 5, Folder 20 | Ultrasound Generated by the Interaction of Ionizing Radiation and Irradiated Mat 1992
| Box 5, Folder 21 | Large Area Contrast of Selected Film-Screen Combinations - Med. Phys.

Reprints
Norman Baily Publications - book 1 1947 - 1959

General note
Measurement of tissue dose ionizing radiation (1947); Measurement of low energy beta ray emitters ionization chamber techniques (1949); Uptake of radioactive iodine by ascophyllum (1951); Iodine studies in ascophyllum using radioactive iodine (1951); Isotopes and beta rays (1952); Iodine exchange in ascophyllum (1955); Quantitation of effects of x-radiation and oxygen poisoning by the electromotivegram (1956); Beam quality determining for a 2-mvp resonance type x-ray generator (1956); Patient exposure to ionizing radiation in dental radiography (1957); Surface and entrance dose for a 2-mvp x-ray beam (1957); Influence of treatment cones on dose rate (1957); Use of automatic computing machines for implant dosimetry (1958); Relative biological effectiveness of various quality x-rays (1958); Proceedings of the first national biophysics conference (1959).


General note
Exit dosage for 2-mvp x-rays (1958); Electron stopping powers relative to air (1958); Relative biological effectiveness of various qualities of radiation as determined by the electromotivegram (1958); Value of isotope scans in the management of thyroid disorders (1958); Gonadal dose in radiation therapy (1959); The response of tumor cell populations to various quality x-rays (1959); Isodose curves for horizontal rotation therapy with 2-mvp roentgen rays (1959); The relative stopping powers of pure gases to that of air (1959); Spent radon seeds (1960); Facilities for handling and storage of medical radiation sources in a large hospital unit (1960); Gonadal dose in radiation therapy (1960); Isodose curves for certain radium applicators used in the treatment of uterine cervical cancer (1960); The relative biological effect of various qualities of x-rays on growth of ascites tumor cells (1960); A p-n junction semiconductor radiation detector for use with beta-and gamma-ray-emitting isotopes (1961); Characteristics of ion drifted p-i-n junction particle detectors (1961; 1962).


General note
Capabilities of lithium drifted p-i-n junction detectors when used for gamma-ray spectroscopy (1961); A miniaturized semiconductor radiation detector (1962); A p-i-n semiconductor radiation detector for use with beta and gamma rays and minimum ionizing particles (1962); Use of semiconductor lithium drifted p-i-n junction detectors for dosimetry (1962); P-i-n junction as a radiation dosimeter (1962); Nuclear-pulse enhancement with silicon p-n junction detectors (1962); Dosimetry of space radiations (1963); Factors influencing the wave-length dependence of silicon p-i-n junctions (1963); Miniature p-i-n for in-vivo dosimetry (1963); Application of lithium-drifted p-i-n junctions to radiosotope measurements (1963); Radiographic inspection device using solid-state p-i-n junction detectors (1963); Use of p-i-n junctions for beta-ray dosimetry (1964); Lithium-drifted silicon p-i-n junction as an x-ray and gamma-ray dosimeter (1964); Entrance and exit absorbed dose characteristics for a 6-mev x-ray generator (1964); Nuclear pulse enhancement in silicon p-n junction radiation detectors (1964); Response of p-i-n junctions to beta rays (1965;1966); Quenching by a magnetic field of enhanced pulses in a silicon radiation detector (1965); Parameters affecting light emission from triglycine sulfate (1965); Light emission from triglycine sulfate (1965); Radiation dosimetry aboard manned space vehicles (1966); Response of p-i-n junctions to low-energy beta ray emitters (1966); Depth dose studies using monoenergetic protons (1966); High energy proton dosimetry (1966); Potential gradient and carrier-collection measurements in lithium-compensated silicon devices (1966); Metal barriers on lithium compensated silicon (1966); Method to experimentally determine the equilibrium proton spectrum existing in tissue during irradiation with high-energy neutrons (1967); Direct reading intracavitary dosimeter for use in radium therapy (1967).
General note

Physical factors governing the performance of spherical silicon detectors as in-vivo secondary proton spectrometers (1967); Recent results in macro and micro dosimetry of high-energy particulate radiation (1967); Investigation of single-crystal, high-resistivity cadmium telluride as a gamma-ray spectrometer (1967); Some characteristics of lithium-drifted silicon structures (1967); High-energy proton depth-dose patterns (1967); Statistical fluctuations of energy deposited in low-atomic-number materials by 43.7-me V protons (1968); Surface charging of triglycine sulfate (1968); Proton microdosimetry (1969); Energy deposition in microscopic volumes by high-energy protons (1969); Measurement and characteristics of depth dose patterns due to proton beams (1969); Frequency distribution for very small energy losses by 43-me V protons (1969); Microdosimetry of charged particles in low atomic number materials (1970); Frequency distributions of energy deposition by fast charged particles in very small pathlengths (1970); Measurements of the frequency distributions of small energy lost by 46-4 me V protons and theoretical predictions using the method of Kellerer (1970); Frequency distribution of the magnitude of energy transfers from high energy protons to tissue-equivalent materials (1970); Search for large events in the energy deposition spectra of 600 meV protons (1971); Single-scan tv radiography system for digital processing (1971); Holographic image reconstruction from planigraphic sections (1971); Holographic storage of roentgenogram images (1971); Capabilities of a single scan tv-radiographic system for digital data acquisition (1971); Fluoroplanigraphy system for rapid presentation of single plane body sections (1971); Changes in the frequency distribution of energy deposited in short pathlengths as a function of energy degradation of the primary beam (1972); Frequency distributions of energy loss by fast charged particles after passage through large thicknesses of tissue-equivalent materials (1972); Further developments in the use of holographic methods for the storage of roentgenographic images (1972); Holographic imaging of the vertebral column (1972); Calculation of proportional counter energy deposition spectra from experimental data (1972); Video-roentgenography system for special procedures and the acquisition of quantitative data (1972); Fluctuations in energy loss and their implications for dosimetry and radiobiology (1972); Applications of a digitalized radiographic-fluorographic processing system to physiologic data extraction (1972).
Norman A. Baily Papers

Box 6, Folder 5


General note

- Frequency distributions of energy deposition by 44 meV protons at bone-soft tissue interfaces (1973);
- Calculation of proportional counter energy-deposition spectra from experimental data (1973);
- Detection capability of differential radiographic absorption through the use of digitalized fluoroscopic images (1973);
- Performance of a large screen fluoroscopic imaging system (1973);
- Electrofluoroplanigraphy (1973);
- Fluoroscopic tomography (1974);
- Use of a computerized electronic radiography system for quantitative measurements (1974);
- Role of secondary particles in microdosimetry (1974);
- Radiobiological implications of statistical variations in energy deposition by ionizing radiations (1975);
- Acquisition of quantitative physiological data and computerized image reconstruction using a single scan tv system (1975);
- Investigation of delta ray production using a multiwire proportional counter (1975);
- Computerized tomography using video recorded fluoroscopic images (1975);
- Capability of fluoroscopic systems to determine differential roentgen-ray absorption (1975);
- Relative influence of geometry and statistical fluctuations of energy loss on the distribution function of energy deposition by charged particles in proportional counters (1975);
- Localization as a contraindication to intracavitary p-chromic phosphate therapy (1975);
- Simple method for the generation of organ and vessel contours from roentgenographic or fluoroscopic images (1975);
- Computer program for the localization of small areas in roentgenological images (1976);
- Response of fluoroscopic image intensifier-tv systems (1976);
- Tumor localization and beam monitoring - electrofluoromography (1976);
- Capability of fluoroscopic systems for the production of computerized axial tomograms (1976);
- Videodensitometry of full chest fluoroscopy: preliminary observations (1976);
- Analog enhancement of radiographic images (1976);
- Physical comparison of a fluoroscopic cat system and the emi head scanner (1976).

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General note

- Computerized tomography using video recorded fluoroscopic images (1977);
- Computerized tomography using video techniques (1977);
- Multiwire proportional counter designed for microdosimetric studies (1977);
- Report of the workshop on medical imaging (1978);
- Computerized system for the measurement of gallstone volume, in vivo (1978);
- Survival curves based on the statistics of energy deposition (1979);
- Quality assurance as a means of achieving better patient care (1979);
- Video techniques for x-ray imaging and data extraction from roentgenographic and fluoroscopic presentations (1980);
- Enhancement of video images (1980);
- Fluoroscopic visualization of megavoltage therapeutic x-ray beams (1980);
- Electron backscattering (1980);
- Review of "Logical processing of digital signals", Med. Phys. (1980);
- Validation of a computer-assisted method for estimating the number and volume of gallstones visualized by cholecystography (1981);
- Digitized longitudinal tomography (1981);
- Digitized longitudinal tomography system (1981);
- Digitizing and interfacing of non-digital images (1982);
- Quantitation of left ventricular dimensions and function by digital video subtraction angiography (1982);
- Normalization (division) versus subtraction of digitized images (1982);

General note

Reviews

Box 6, Folder 8    American Journal of Roentgenology (AJR) 1986
Box 6, Folder 9    IEEE Transactions On Biomedical Engineering 1981 - 1982
Box 6, Folder 10   IEEE Transactions On Medical Imaging 1983 - 1990
Box 7, Folder 1    Medical Physics - Book Division 1988 - 1989
Box 7, Folder 2    Medical Physics - Correspondence 1976 - 1981
Box 7, Folder 3    Medical Physics - Correspondence 1982 - 1989
Box 7, Folder 4    Medical Physics - AAPM Journal, Editorial Board (minutes, correspondence, etc,) 1972 - 1992
Box 7, Folder 5    Medical Physics - General manuscript reviews 1983 - 1990
Box 7, Folder 6    Medical Physics - Telephone/fax listings for Associate Editors
Box 7, Folder 7    Miscellaneous reviews 1983 - 1992
Box 7, Folder 8    Nuclear Technology 1986
Box 7, Folder 9    S.P.I.E., 1976; 1980

TEACHING

Scope and Content of Series

Series 4) TEACHING: Material from Baily's twenty-four years of teaching at UC San Diego. There is little documentation of Baily's teaching at UCLA. Arranged in four subseries: A) Lectures and Notes, B) Programs and Seminars, C) Academic Senate, and D) Student Files.

Lectures and Notes

Box 8, Folder 1    Basic Principles for the Use of Radiopharmaceuticals in Human Research 1977
Box 8, Folder 2    Diagnostic Radiology 1983 - 1984
Box 8, Folder 3    Diagnostic Radiology - Radiobiology
Box 8, Folder 4    Introduction to Clinical Medicine (ICM)
Box 8, Folder 5    Medical Physics - Warren 4526 (readings, attendance, teaching notes) 1990
| Box 8, Folder 6 | Nuclear Medicine - Demo/Lectures 1991 |
| Box 8, Folder 7 | Nuclear Medicine - Physics Lecture for Res. 1991 |
| Box 8, Folder 8 | Nuclear Medicine (residency training manual and Q.A. training) |
| Box 8, Folder 9 | Nuclear Medicine Residents - demonstration/ participation course |
| Box 8, Folder 10 | Nuclear Medicine talk for medical students |
| Box 8, Folder 11 | Oncology Residents 1980 - 1981 |
| Box 8, Folder 12 | Physics lectures for medical students |
| Box 8, Folder 13 | Physics lectures for Residents in Radiation Oncology 1981 |
| Box 8, Folder 14 | Physics lectures 1981 |
| Box 8, Folder 15 | Physics review course 1986 |
| Box 8, Folder 16 | Physics review course - Conventional Tomography |
| Box 8, Folder 17 | Physics review course - Digital Radiology (Fluoroscopy) |
| Box 8, Folder 18 | Physics review course - Fluoroscopy and Image Intensifiers |
| Box 8, Folder 19 | Physics review course and Residents lectures - Mammmography |
| Box 8, Folder 20 | Radiology 401 - general |
| Box 8, Folder 21 | Radiology 401 - handouts |
| Box 8, Folder 22 | Radiology Electives 1986 - 1987 |
| Box 8, Folder 23 | Radiology Resident Course 1985 |
| Box 8, Folder 24 | Radiology Resident Course 1986 |
| Box 8, Folder 25 | Radiology Resident Course 1987 |
| Box 8, Folder 26 | Radiology Technologists - Operation of Fluoroscopy Equipment |
| Box 9, Folder 1 | Screw Position Algorithm |
| Box 9, Folder 2 | Special Topics in Radiation Physics 1981 |
| Box 9, Folder 3 | Training/teaching films - ACR learning file |
| Box 9, Folder 4 | UCLA 1986 |

### Programs and Seminars

| Box 9, Folder 5 | 8th ICAR Seminar 1987 |
| Box 9, Folder 6 | Faculty Mentor Program - General 1991 |
| Box 9, Folder 7 | Faculty Mentor Program - Undergraduate Affairs 1988 - 1991 |
| Box 9, Folder 8 | Faculty Retreat - Radiology 1992 |
| Box 9, Folder 9 | Faculty-Student Internship Program (SCURI), 1982; 1984; 1992 |
| Box 9, Folder 10 | Lecture to Bioengineering Students 1984 |

- General note |
- memo re: NAB seminar

| Box 9, Folder 11 | Medical Physics Program - Current 1975 |
| Box 9, Folder 12 | Medical Physics Program - Proposal, revisions, drafts 1969 - 1971 |

- General note |
- 1 of 2 folders

| Box 9, Folder 13 | Medical Physics Program - Proposals, revisions, drafts 1974 |

- General note |
- 2 of 2 folders

| Box 9, Folder 14 | Medical Student Study Projects (ISP) 1984 |
| Box 9, Folder 15 | Undergraduate Seminars (one-unit) 1988 - 1992 |
| Box 9, Folder 16 | UC Irvine - Holography 1985 |

### Academic Senate

| Box 9, Folder 17 | Committee Service 1989 - 1992 |
| Box 9, Folder 18 | Faculty Welfare Committee Meeting 1990 |
| Box 9, Folder 19 | Representative Assembly Members and Alternates 1991 |
Student Files

Box 9, Folder 20

Huang, G.

General note
"Design Testing and Prototype Development of a Portable - Real Time Portal Imaging Device"

Box 10, Folder 1


General note
First half of manuscript (pgs. 1-108), 1 of 2 folders

Box 10, Folder 2


General note
Second half of manuscript (pgs. 109-257), 2 of 2 folders

Box 10, Folder 3

Kampp, Thomas D. 1978 - 1987

Box 10, Folder 4

Lee, Kai H. 1974; 1981-1982

Box 10, Folder 5

Lui, John K. 1984

Box 10, Folder 6

Medical Students 1989

Box 10, Folder 7

Student Advisee Program 1986 - 1989

ORGANIZATIONS

Scope and Content of Series

Series 5) ORGANIZATIONS: Arranged alphabetically by the name of the organization. Baily played an active role in both national and international professional societies. Highlights of his involvement include documentation of his work with The American College of Radiology, including attending its conferences and serving on committees sponsored by the ACR to investigate such topics as the "ACR Position on the Chernobyl Incident, 1986" and "Proposed Patient Exposure Average" at a Conference of Radiation Control Program Directors. Baily was actively involved in the American Association of Physicists in Medicine and became a staunch supporter of the Southern California Chapter of the AAPM. Included in this material are original meeting minutes from the first meeting by the SCC-AAPM, as well as a copy of rough drafts of the SCC constitution and by-laws. There is also extensive documentation, including correspondence, published announcements, lists of speakers, and notes pertaining to the annual SCC AAPM Spring Seminars (1986-1990), which Baily was responsible for organizing.

Box 10, Folder 8

American Academy of Health Physics 1984

Box 10, Folder 9

American Association for the Advancement of Science 1990 - 1991

Box 10, Folder 10

American Assoc. of Physicists in Medicine (AAPM) - 33rd Annual Meeting (notes) 1991

Box 10, Folder 11

AAPM - 33rd Annual Meeting, San Francisco, CA 1991

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CONSULTING

Scope and Content of Series
Series 6) CONSULTING: Baily acted as a medical expert witness for medical and legal cases.
   Materials in this series include correspondence, medical briefs, and court case pleadings.
   Arranged alphabetically by folder title, this series also includes documentation entitled
"State Licensure" which discusses Baily's involvement with the Nuclear Regulatory
   Commission to pass laws that would require medical use licensees to establish and
   implement a basic quality assurance program. Baily worked on gathering support for the
   licensure of medical physicists in the State of California. The Quality Assurance material
   focuses on establishing radiation level standards / guidelines for hospitals, clinics, medical
   centers, and the medical equipment found within these institutions, as well as lecture notes
   for courses teaching methods of quality assurance.

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