

Guide to the Records of the Radiologic Imaging Laboratory MSS.2002.08

Support provided by Dr. Lawrence E. Crooks.

University of California, San Francisco Archives & Special Collections

2011, Revised 2016

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URL: <http://www.library.ucsf.edu/collections/archives>

Language of Material: English

Contributing Institution: University of California, San Francisco Archives & Special Collections

Title: Radiologic Imaging Laboratory records

creator: Crooks, Lawrence E.

creator: University of California, San Francisco. Radiologic Imaging Laboratory

Identifier/Call Number: MSS.2002.08

Physical Description: 103 Linear Feet(73 cartons, 8 boxes, 6 oversize boxes, 4 flat file drawers)

Date (inclusive): 1963-2010

Abstract: Contains the records of the Radiologic Imaging Laboratory (RIL) of the University of California, San Francisco (UCSF) from its initial funding by Pfizer, Inc. through its operation as a unit of Diasonics, Inc. and Toshiba America MRI (TAMI). Material relates to the RIL's development and sale of magnetic resonance imaging (MRI) technology, dated 1963-2010.

Language of Material: Collection materials are predominantly in English. Some material in Japanese, German, and Dutch.

 <https://calisphere.org/collections/26189/>

Preferred Citation

Radiologic Imaging Laboratory records, MSS 2002-08. Archives and Special Collections, University of California, San Francisco.

Conditions Governing Access

Collection is open for research. The UCSF Archives and Special Collections policy places access restrictions on material with privacy issues for a specific time period. Restrictions are noted at the series level. This collection will be reviewed for sensitive content upon request. Contact the UCSF Archivist for information on access to these files.

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Acquisition Information

Records donated to the UCSF Archives and Special Collections by Lawrence E. Crooks from 2002-2015. Additional material from Nancy Rockafellar added in 2016.

Related Collections

UCSF Oral History Collection, OH 2012-17

Processing Information

Initial processing completed in 2011. Revisions completed by Kelsi Evans in 2016.

Biographical / Historical

Radiologic Imaging Laboratory History: In 1975, the UCSF Department of Radiology, under the direction of Alexander Margulis, founded a small research and development group to investigate new medical diagnostic imaging instruments and systems. The team included electrical engineers, radiofrequency coil experts, computer scientists, and medical researchers. They sought in part to create a clinically viable diagnostic tool using nuclear magnetic resonance imaging, later called magnetic resonance imaging (MRI). They focused on creating a machine capable of safely and effectively capturing scanned images of the living human body. In 1978 the lab, now called the Radiologic Imaging Laboratory (RIL), opened an off-campus facility at 400 Grandview Drive in the Cabot, Cabot and Forbes Industrial Park in South San Francisco. Leon Kaufman served as chief scientist and director and Lawrence Crooks served as assistant director and electrical engineer. RIL researchers regularly consulted with physicians to initiate patient and animal studies and better understand how pathologies impact the imaging of tissue. They experimented with magnet technology and designed new computer hardware and software to improve MRI machine availability, image quality, speed, and sensitivity. RIL originally received funding from the Pfizer Corporation under an agreement with the UCSF Radiology Department. In late 1981, Pfizer discontinued its imaging activities and Diasonics purchased the project. In 1989, Toshiba acquired RIL from Diasonics. In 1994, RIL separated from the University and became a unit of Toshiba America called TAMI RIL. RIL researchers secured numerous patents and received royalties for their technology. In the 1990s, following royalty and patent disputes with UCSF regarding imaging technology, UC Berkeley professor Jerome R. Singer (later joined by Lawrence Crooks) sued the Regents of the University of California. The RIL ceased operation in 2001.

RIL Electrical Engineer Lawrence E. Crooks History: Lawrence E. Crooks, a founding member of the Radiologic Imaging Laboratory, was born in Berkeley, California in 1949. He received his BS, MS, and PhD degrees in Electrical Engineering from the University of California, Berkeley in 1971, 1973, and 1978 respectively. From 1972 to 1976, Crooks was a National Institutes of Health trainee in bioengineering. In 1976, he joined the UCSF Department of Radiology Nuclear Medicine Section as an assistant professor of electrical engineering. He was appointed associate professor in 1981 and professor in 1985. From 1994-2001, Crooks served as a research fellow for Toshiba America MRI, Inc. He continues to serve as an independent consultant and research specialist affiliated with the UCSF Department of Anthropology, History, and Social Medicine. Crooks holds 22 patents on magnetic resonance imagers for medical applications. Crooks's publications include the 1981 textbook Nuclear Magnetic Resonance Imaging in Medicine and more than 137 articles on MRI imaging and instrumentation. He has served on the editorial boards of Magnetic Resonance in Medicine, Journal of Magnetic Resonance Imaging, American Journal of Roentgenology and Current Concepts in Magnetic Resonance Imaging. Crooks received the Bechtel Achievement Award in 1972, the IEEE Centennial Key in 1984 as an outstanding young investigator in the Engineering in Medicine and Biology Group, the 1986 Society of Magnetic Resonance in Medicine's Gold Medal, and the John P. Roberts Research Institute's International Taylor Prize in 1989. He is a member of Phi Beta Kappa, Eta Kappa Nu, Tau Beta Pi, and Sigma Xi and was elected a Fellow of the International Society for Magnetic Resonance in Medicine in 1997.

Scope and Contents

The collection contains the records of the Radiologic Imaging Laboratory (RIL) of the University of California, San Francisco (UCSF) from its initial funding by Pfizer, Inc. through its operation as a unit of Dasonics, Inc. and Toshiba America MRI (TAMI). Material relates to the RIL's development and sale of medical imaging technology, including magnetic resonance imaging (MRI). The collection includes administrative and marketing material and the professional papers of lab members. Notable material related to the lab's research includes corporate correspondence, MRI machine designs and engineering drawings, system operation binders, photographs of early scans, machine prototype artifacts, and laboratory research notebooks. Material related to the lab's administration and product marketing includes grant records, trade show slides and advertising brochures, marketing photographs and audiovisual recordings, large conference posters, and vendor and purchasing records. Restricted material in the collection includes court documents, patent records, and patient records.

Arrangement

The collection's arrangement reflects the original order preserved by Lawrence Crooks and archival processing completed in 2011 and revised in 2016. The collection is arranged in 18 series: I. Administrative and financial records, 1973 - 1997; II. Lawrence Crooks files, 1970 - 2002; III. Leon Kaufman files, 1973 - 2000; IV. Joel Blank files, 1968 - 1990; V. Ray Schultz files, 1982 - 1989; VI. Jeffrey Watts files, 1976 - 2000; VII. John Hoeningner files, 1964 - 1997; VIII. James Hale files, 1978 - 2000; IX. William Lu files, 1984 - 1999; X. Mitsuaki Arakawa files, 1977 - 1993; XI. John van Heteren files, 1980 - 1999; XII. Other RIL member files and miscellaneous material, 1977 - 2002; XIII. Writings and printed material, 1971 - 2006; XIV. Informational audiovisual and graphic material, 1980 - 2010; XV. Patent records and correspondence, 1976 - 2001; XVI. Jerome R. Singer v. The Regents of the University of California court records 1963-1996; XVII. Patient records, 1978 - 1994; XVIII. Artifacts, circa 1985-1995.

Subjects and Indexing Terms

Biomedical engineering
Dasonics, Inc.
Magnetic resonance imaging
Nuclear magnetic resonance
Toshiba Corporation
University of California, San Francisco
University of California, San Francisco. Department of Radiology

cartons 1-3

Administrative and financial records 1973-1997

Scope and Contents

Series contains business records from the files of Mary Parish Camp and Linda Bruzzone.

Conditions Governing Access

There is restricted material in cartons 1 and 2. Contact the UCSF Archivist for information on access to these files.

carton 1,
 folders 1-6
 carton 1,
 folders 7-14
 carton 1, folder 15
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 carton 1,
 folders 17-20
 carton 1,
 folders 21-22
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 folders 21-24,
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 folders 1-21
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Operating rules and financial records 1978-1980

Vendors and purchasing 1975-1991

Move to Cabot, Cabot, and Forbes Industrial Park Oyster Point property 1976-1979

Lawrence Crooks travel expenditures 1978-1983

Laboratory facilities management and design 1975-1997

San Francisco Radiologic Imaging Foundation records 1978-1979

Biographical sketches prepared for Food and Drug Administration (FDA) approval 1981-1982

Radiologic Imaging Laboratory (RIL) opening reception and anniversary event 1978, 1988

Search committees and position announcements 1977-1982

Personnel records 1975-1981

Schering AG fund 1976-1982

National Institutes of Health (NIH) Center Grant 1973-1975

National Cancer Institute Medical Nuclear Physics grants 1974-1980

Grant applications and abstracts 1973-1992

Program Project grants 1974-1984

Departmental reports of appropriations and expenditures 1987-1995

Lawrence Crooks files 1970-2002

Conditions Governing Access

There is restricted material in cartons 3, 4, and 5. Contact the UCSF Archivist for information on access to these files.

carton 3, folder 22
 carton 3, folder 23

International Society for Magnetic Resonance in Medicine 1995-2000

Radiology and magnetic resonance professional associations and newsletters 1988-2002

carton 3, folder 24

University of California San Francisco / University of California Berkeley

Bioengineering Graduate Group directory 1996

Resumes, letters of recommendation, and editorial review boards 1975-1998

carton 3,
 folders 25-28

Performance appraisals 1987-2000

Resumes and letters of recommendation 1978-1995

Course announcements and lectures 1978-1988

Correspondence 1990-2000

carton 4, folder 1
 carton 4, folder 2
 carton 4, folder 3
 carton 4,
 folders 4-9
 carton 4, folder 10
 carton 4, folder 11
 carton 4, folder 12
 carton 4,
 folders 13-15
 carton 4,
 folders 16-33,
 carton 5, folder 1

Lincoln Bourne 1993-1994

Waylon House 1978

Michael Steckner 1994

Toshiba correspondence and memorandums 1991-1998

Printouts of email correspondence 1988-1998

Scope and Contents

Contains professional correspondence regarding imaging technology engineering, teaching, and laboratory administration.

carton 5, folder 2
carton 5, folder 3

Instrumentarium Acutscan 1985-1986

"Prospects for Nuclear Magnetic Resonance Imaging of Endogenous Atoms Other Than Hydrogen" draft and research notes circa 1975

MT/P product design and specifications 1987

Magnet enclosure engineering and patent correspondence 1987-1997

Echo planar gradient coil plans 1987

Gradient coils and Oxford magnet 1978-1988

carton 5, folder 4
carton 5, folder 5
carton 5, folder 6
carton 5,
folders 7-9

Magnet vendors and specifications 1970-1978

Receiver block diagrams undated

John Hoenninger and radio frequency (RF) research 1990-1995

Laboratory research notebooks 1977-1994

carton 5, folder 10
carton 5, folder 11
carton 5, folder 12
carton 5,
folders 13-17

Scope and Contents

Notebooks include photographs of machines, scans, and lab members.

carton 5, folder 18
carton 72,
folder 12
carton 72,
folder 13
cartons 5-6, 72-73

Engineering backup floppy disks 1984-1986

Photocopy of Abusing Cancer Science: The Truth about NMR and Cancer and correspondence with Donald Hollis 1987

"Instrumentation for the Measurement of Viscosity and Flow of Biological Fluids,"

Crooks PhD dissertation 1978

Leon Kaufman files 1973-2000

carton 5,
folders 19-23
carton 5, folder 24
carton 5, folder 25
carton 5, folder 26
carton 5, folder 27
carton 5, folder 28
carton 6, folder 1
carton 6, folder 2
carton 6, folder 3
carton 6, folder 4
carton 6, folder 5
carton 72,
folders 9-10
carton 72,
folder 11
carton 73,
folders 1-12

Institute of Electrical and Electronics Engineers (IEEE) and UCSF short courses 1973-1981

Montreal Neurological Institute 1978

Joel Blank and Pfizer Medical Systems, Inc. 1980-1981

Edward Cantey of Pfizer Legal Division 1979-1980

Gregory Gardiner and Pfizer, Inc. 1977-1982

Joshua Kalkstein 1979

Michael A. Lechter of Cushman, Darby & Cushman 1978-1980

Richard Matthews of Pfizer Medical Systems, Inc. 1978-1980

John Perry of Pfizer Medical Systems, Inc. 1977-1980

Randolph Richmond of Pfizer, Inc. 1980-1981

Cliff Stirba of Pfizer, Inc. 1981-1982

Toshiba America Medical Systems, Inc. v. TME, Inc. testimony transcript 1994

Correspondence and clippings regarding Fonar and interventional MRI patents 1991-2000

Binders of slides (photographs) 1977-1988

Scope and Contents

Includes slides (photographs) of MRI machines and sites, lab members, MRI scans of head, brain, and body, and graphs and other informational data. Removed from original binders for preservation purposes.

cartons 6-8

Joel Blank files 1968-1990

Conditions Governing Access

There is restricted material in carton 6. Contact the UCSF Archivist for information on access to these files.

carton 6,
folders 6-10
carton 6, folder 11

Western Electric engineering and accounting courses 1968-1972

University of California San Francisco Radiological Health Sciences Education Project "Correlated Lecture-Laboratory Series in Diagnostic Radiological Physics" draft circa 1972

Personnel records 1978-1987

carton 6,
folders 12-13

carton 6, folder 14
carton 6, folder 15
carton 6,
folders 16-17
carton 6,
folders 18-19
carton 6, folder 20
carton 6, folder 21
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carton 8, folder 14
carton 8, folder 15
carton 8,
folders 16-18
cartons 8-9

Delivery and order status report 1978
Cost analyses and parts lists 1976-1979
Budget analysis report 1978

"Material for the preparation of the Investigational Device Exemption" Food and Drug Administration (FDA) approval 1978-1980

Financial projections and program schedules 1978-1982

Pfizer monthly reports 1980-1981

"Business of Disonics - NMR Limited" draft circa 1981

Budgets and financial plans 1980-1985

Disonics NMR strategic plan 1982

Strategic planning 1987-1990

Disonics budget almanac 1983

Operations review 1987

Procedure for control of confidential information 1980

Promotional material for clinical trials undated

Disonics NMR marketing booklets and other printed material 1982-1984

Disonics press releases 1985

Disonics ACCESS MRI System Site Planning Guide 1989

"MRI Movie Script" drafts 1983

"Disonics Strategic Assessment and Recommendations" report from the Wilkerson Group 1986

Disonics "Mobile User Survey" report from the Technology Marketing Group 1988

Disonics product information binder 1983

Disonics customer service and sales and marketing 1983-1989

Sales presentation slides 1983-1984

Disonics marketing photographs of scans undated

Disonics users meetings 1988

Disonics Corporate National Sales Meeting binder 1983

Toshiba America MRI 1990

Trade show and conference budgets 1985

Marketing plans and conference preparation 1983-1985

Radiological Society of North America (RSNA) conferences 1985-1987

Sales meetings and conferences 1986-1987

University of Texas Health Science Center at Dallas site 1984-1987

Installation sites and customer service 1986

Veterans Administration (VA) in Hines, Illinois installation bid 1986

MT/S product specifications 1986

512 project 1987

Instrumentarium 1986

Program management meeting minutes 1987-1988

Ray Schultz files 1982-1989

Conditions Governing Access

There is restricted material in cartons 8 and 9. Contact the UCSF Archivist for information on access to these files.

carton 8, folder 19

Clinical scan image inventories undated

carton 8,
folders 20-24

Sales meetings and conferences 1982-1989

Scope and Contents

Includes photographs and slides of conference booths, presentations, and Mardi Gras.

carton 8,
folders 25-30,
carton 9,
folders 1-3

Radiological Society of North America (RSNA) conferences 1982-1989

Scope and Contents

Includes photographs and slides of conference booths and presentations, scans, and laboratory members.

carton 9, folder 4
carton 9, folder 5
carton 9, folder 6
carton 9, folder 7
cartons 9-11

Radiological Society of North America (RSNA) conference patient reports 1985

Trade show budgets 1985-1987

Diasonics NMR slide presentation 1983

Marketing photographs of scans circa 1984

Jeffrey Watts files 1976-2000

carton 9,
folders 8-12
carton 9, folder 13

Facilities planning and purchasing 1992-1999

Federal Communications Commission (FCC) microwave radio station licenses for computer network link 1988-2000

Microwave systems and services for computer network link 1996-2000

Hardware and software engineering 1983-1999

Scope and Contents

Includes computer programming material and program listings, correspondence, product guides, specifications and reports, and vendor printed material. Subjects include MicroVAX, ACCESS, acquisition software, Q-bus, T/R rack, display library, radiofrequency levels, fluoroscopy, MRT 35, MT/S and MT/S II systems, LSIMON, and Flexart.

carton 9,
folder 24,
carton 10, folder 1
carton 10, folder 2
carton 10,
folders 3-15

Next Generation MRI product (NGP) 1989-1994

Mini TAMI coil module (MiniTCM) 1996-2000

Hardware and software engineering 1983-2000

Scope and Contents

Material includes computer programming tests and program listings, correspondence, product manuals, specifications, and printed material regarding computer engineering and vendors. Subjects include front end processor (FEP) software, fluoro design, linearity correction, OPART, Open GL Graphics, prescan, RM communication, pipeline, Tibet system, sequence editor, and VAX.

carton 10,
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Toshiba hardware and software design 1990-2000

Hardware and software design specifications 1988-1996

Software walkthrough reports 1998-2000

Lawrence Crooks reports 1989, 1993

MRIMON project 1989-1990

Autoshim project 1987-1989

Interprocessor link 1983-1987

VAX to Mac and PC subject file 1987-1991

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folders 35-36
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folders 37-38
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System performance management subject file 1989-1991

Software licenses 1988-1990

User Interface Library (UIFLIB) 1984-1987

Hardware scaler 1983-1984

Digital Equipment Corporation software version release cover letters circa 1985

Software version release records 1983-1994

Year 2000 preparation 1994-1999

Coil tuning 1991-1999

Digital Imaging and Communications in Medicine (DICOM) 1996-1998

Toshiba OPART 1995-1998

Power supply specifications 1976-1979

Disk drive installation guides and photocopies of drives 1999-2000

Toshiba Nasu Works software infrastructure meeting 1995

Laboratory research notebooks 1985, 1995-2000

Photocopies of weekly diaries 1979-1998

John Hoenninger files 1964-1997

Conditions Governing Access

There is restricted material in cartons 11 and 12 and oversized box 1. Contact the UCSF Archivist for information on access to these files.

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carton 12,
folder 30

Personnel records 1980-1995

Radiologic Imaging Laboratory reprints 1985-1989

MRI controller presentation undated

Society for Magnetic Resonance in Medicine conferences 1984-1988

Digital Equipment Corporation Users Society (DECUS) 1978-1981

Budgets and purchasing records 1980-1989

Pfizer NMR system inventories and planning 1977-1978

Site installation plans and specifications 1982-1990

Engineering correspondence and memorandums 1982-1990

Patent records 1984-1997

Multiwire West 1977-1986

Peritek Corporation 1980-1989

Computer engineering project management 1981-1983

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carton 13,
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carton 13,
folders 13-19,
carton 14,
folders 1-24

Computer vendor clippings and brochures 1979-1995

Computer programming notes and program listings 1978-1989

Hardware and software engineering 1973-1995

Scope and Contents

Material includes correspondence, photographs and floppy disks, engineering drawings and block diagrams, specifications, vendor material, and computer programming notes and program listings. Subjects include image processors, FEP, sequencer hardware, MicroVAX II, LSIMON, data acquisition systems, DAP, digital analog converters, ADS project, NMR integrator and systems, well counter, and displays.

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carton 16

Bus scaler backplane project 1986-1987

Digital receiver/transmitter project 1989-1995

Waveform generator project 1989

Control computer project 1989

Sky Computers Warrior processors 1987-1988

T/R rack project 1987-1989

DRFEP receiver software walkthrough reports 1997

MRI serial bus project 1988-1989

ARCHIVE design 1989

Cadmium telluride (CdTe) integrator project and photographs 1976-1977

MRIMON project 1987-1992

Next Generation Product (NGP) projects 1989

Positron camera 1977

Prototype change orders and engineering drawings 1986-1987

MRI system computer architecture article drafts 1984

Toshiba Nasu Works 1990

Clippings and reprints 1964-1990

James Hale files 1978-2000

Conditions Governing Access

There is restricted material in carton 16. Contact the UCSF Archivist for information on access to these files.

carton 16, folder 5
carton 16, folder 6
carton 16, folder 7

carton 16, folder 8

Diasonics annual reports and stock option plans 1984-1985

Toshiba address list and Research and Development Center in the USA circa 2000

Toshiba American Medical Systems v. TME, Inc. subpoena and question and answer 1995

Correspondence 1985-1991

carton 16,
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carton 16,
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cartons 16-24,
oversized-box 1

Writings of Hale and Radiologic Imaging Laboratory members 1978-1992

Meetings and conferences 1984-1992

ACCESS fellowship course 1993

Imaging systems subject file undated

Image reconstruction 1985-1997

Research notes and data 1985-1997

Vessel view software and patient reports 1986

William Lu files 1984-1999

Conditions Governing Access

There is restricted material in cartons 19, 23, and 24. Contact the UCSF Archivist for information on access to these files.

carton 16,
folders 23-27

Institute of Electrical and Electronic Engineers (IEEE) conference and membership 1993

Scope and Contents

Includes presentation slides.

carton 16,
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carton 16,
folder 31,
carton 17,
folders 1-10
carton 17,
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Meetings and conferences 1987-1994

Vendors and purchasing 1987-1999

Engineering correspondence 1987-1996

Manuals and guides 1986-1996

Scope and Contents

Subjects includes Hitachi Tesla magnet, MRT 50A, Toshiba training manuals, MRT 35A, and MRT 600.

carton 17,
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folders 26-27
carton 19,
folders 1-6
carton 19,
folders 7-8

Radiofrequency (RF) Group weekly reports and meeting minutes 1987-1999

Toshiba Nasu Works 1992

Test procedures and standards for products and site installations 1987-1996

Coil product development plans and project file change reports 1993-1998

Environmental testing 1996-1997

Dual temporomandibular joints (TMJ) coil projects 1988-1989

Quality assurance worksheets and data circa 1988

Extremity array coil projects 1997-1999

Tibet projects 1995

carton 19,
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folders 15-28,
carton 20,
folders 1-2

ACCESS x-wing TX coil projects 1992-1996

QD L-spine and body coil projects 1988-1994

Scope and Contents

Includes photographs.

carton 20, folder 3
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folders 5-24,
carton 21, folder 1
carton 21,
folders 2-23,
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folders 1-20,
carton 23,
folders 1-8

Sumitomo Corporation 1987-1988

Toshiba coil evaluations 1990-1992

MRT-600 magnet and coil projects 1991-1997

Magnet and coil engineering 1985-1999

Scope and Contents

Includes memorandums, engineering drawings, test procedures and results, specifications, seven plane field plot data, research notes, and photographs and floppy disks. Subjects include MRT 600, OPART, radiofrequency shield, Rainbow TX and RX projects, QD spine and body coils, Tibet projects, Bridge projects, MRT 150, TX and RX coils, and extremity array coils.

carton 23,
folders 9-20,
carton 24,
folders 1-6

Laboratory research notebooks 1987-1999

Scope and Contents

Notebooks include photographs of machines, data, and scans.

oversized-box 1,
folders 4-5
cartons 24-27,
oversized-box 2

Engineering drawings and block diagrams 1989-1992

Mitsuaki Arakawa files 1977-1993

Conditions Governing Access

There is restricted material in carton 27. Contact the UCSF Archivist for information on access to these files.

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folders 1-8
carton 25,
folders 9-13
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folders 14-16
carton 25,
folders 17-22
carton 26,
folders 1-5
carton 26, folder 6
carton 26,
folders 7-13
carton 26,
folders 14-15
carton 26,
folders 16-19
carton 26,
folders 20-22,
carton 27,
folders 1-10

Product and system test procedures 1987-1991

"Next Generation Product (NGP) design no. 2" binders 1990

"MRT 35 design notes" binders 1980-1982

Product and system design binders 1984-1989

T/R project binders 1989-1992

"Hidden TX coil" binder 1992-1993

High and low field adapter binders 1979-1988

"QD RFFE" binders 1987

"Work notes" binders 1980-1987

Laboratory research notebooks 1977-1993

Scope and Contents

Notebooks include photographs of scans, data, and equipment.

oversized-box 2,
folders 1-2
cartons 27-31

Engineering drawings and block diagrams 1982-1984

John van Heteren files 1980-1999

Conditions Governing Access

There is restricted material in cartons 27, 28, and 31. Contact the UCSF Archivist for information on access to these files.

carton 27,
folders 11-14

Directories and personnel records 1987-1999

Scope and Contents

Includes floppy disks.

carton 27,
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folder 18
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carton 28, folder 1

Diasonics Employee Activities Committee and Toshiba Small Group Activities (SGA) 1988-1993

ISO 9000 and 9001 certification steering committees 1994-1995

Presentations and talks 1988-1993

University of California, Berkeley course lecture notes and exams 1990

University of California Berkeley / University of California San Francisco Bioengineering Graduate Group directories and meeting minutes 1992-1993
Manuscripts and reviews 1987-1995

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folders 8-10
carton 28,
folders 11-15

Paul Moran article critiques 1987

Grant applications and correspondence with Lincoln Bourne of Superconductor Technologies Inc. 1991-1994

Meetings and conferences 1985-1994

Scope and Contents

Includes presentation slides.

carton 28,
folders 16-18

Meeting and conference notebooks 1984-1991

Scope and Contents

Includes photographs of posters.

carton 28,
folders 19-30
carton 29, folder 1
carton 29,
folders 2-9

Vendor brochures and purchasing 1980-1996

Radiofrequency (RF) Group weekly reports and meeting minutes 1989-1990

Autotune unit test procedures and version release records 1988-1989

Scope and Contents

Includes floppy disks.

carton 29,
folder 10
carton 29,
folders 11-20

GP-150 projects 1992-1993

Hardware and software engineering 1987-1995

Scope and Contents

Material includes data, block diagrams, computer programming notes and program listings, and memorandums. Subjects include T/R rack, serial bus, sequencer controller, mini TCM, signal generator board, and direct digital synthesis (DDS).

carton 29,
folders 21-24

Coil tuning 1990-1995

carton 29,
folders 25-28,
carton 30,
folders 1-6

Magnet and coil engineering 1984-1996

Scope and Contents

Material includes correspondence, engineering drawings, specifications and reports, data, and photographs. Subjects include speeder coil, TMJ coils, ACCESS, phased array and QD coils, cryostat, and high temperature superconductor coil.

carton 30, folder 7
carton 30,
folders 8-19

Lawrence Crooks reports and memorandums 1989-1990

Laboratory research notebooks 1986-1995

Scope and Contents

Notebooks include photographs of scans, data, and equipment.

carton 30,
folder 20
carton 31,
folders 1-5
cartons 31-32, 72,
oversized-box 2,
box 8

Phone conversation logbook 1991-1992

Patent records 1990-1996

Other RIL member files and miscellaneous material 1977-2002

Conditions Governing Access

There is restricted material in carton 31. Contact the UCSF Archivist for information on access to these files.

carton 31, folder 6
carton 31, folder 7
carton 31,
folders 8-9
carton 31,
folder 10
carton 31,
folders 11-15

Joe Carlson magnet vendor material 1985-1995

Joe Carlson coil engineering 1994

Hsu Chang software release version 2.0 binder 1985

Peter Davis laboratory research notebook 1981-1982

Kevin Derby spectra research data circa 1987

Scope and Contents

Includes photographs and slides.

carton 31,
folders 16-19
carton 31,
folders 20-21

Kevin Derby laboratory research notebooks 1987-1989

Riley English integrator probe system engineering 1985-1987

Scope and Contents

Includes photographs.

carton 31,
folder 22
carton 31,
folder 23

John Fehn personnel records and directories 1986-1994

John Fehn correspondence and employee activity flyers 1989-1998

Scope and Contents

Includes material regarding the corporate Disonics / Toshiba sale.

carton 31,
folder 24
carton 31,
folder 25

John Fehn patent records 1987-1989

John Fehn coil engineering 1988-1993

Scope and Contents

Includes photographs of data and laboratory.

carton 31,
folder 26
carton 31,
folders 27-29
carton 32,
folders 1-2

John Fehn Toshiba service and installation manuals 1989-1990

Bonnie Houston laboratory research notebooks 1989-1990

David Kramer ASEP installation manual draft 1986

carton 32, folder 3	Alexander Margulis correspondence and human subjects research protocol 1977-2002
carton 32, folder 4	Peter Rothschild Magnevist material 1988 Scope and Contents Includes slides.
carton 32, folder 5, oversized-box 2, folder 3	Gary Temkow engineering drawings and block diagrams 1985-1988
carton 32, folder 6	Gary Temkow laboratory research notebook 1983
carton 32, folder 7	Gradient coil and sequence data 1987-1989
carton 32, folders 8-9	Toshiba America Medical Systems Intermediate Technologist course binder undated
carton 32, folders 10-11	Toshiba OPART screenshots 1997
oversized-box 2, folder 4	Figures prepared for UCSF Educational Media Services undated
oversized-box 2, folder 5	Calendar 1992
oversized-box 2, folder 6	Cartoons circa 1982
oversized-box 2, folders 7-8	Engineering drawings and block diagrams 1989-1992
oversized-box 2, folder 9	Photocopies of Disonics RF Group plaque 1989
box 8	RIL member floppy disks circa 1990
carton 72, folder 7	Food and Drug Administration (FDA) Radiologic Devices Panel transcript 1983
carton 72, folder 8	Toshiba America MRI design control training seminar 1999
cartons 32-34, 72, oversized-box 2	Writings and printed material 1971-2006
carton 32, folder 12	Disonics marketing booklets and brochures 1982-1983
carton 32, folders 13-23, carton 33, folders 1-4	Operation and installation manuals 1986-1997 Scope and Contents Subjects include OPART, Toshiba Superconducting MRI System, ACCESS, MT/S, and FLEXART.
carton 33, folders 5-18	Study protocols and data for use in publications 1980-1981
carton 33, folders 19-21	Research subject files and bibliographies 1971-1980
carton 33, folder 22	RIL history 1980
carton 33, folders 23-24	RIL publication lists and abstracts 1978-1981
carton 33, folders 25-30, carton 34, folder 1	Manuscripts and reprints 1973-1995 Scope and Contents Includes correspondence with publishers and reviewers.
carton 34, folders 2-15, oversized-box 2, folder 10	Nuclear Magnetic Resonance Imaging in Medicine drafts and other material 1980-1981 Scope and Contents Includes photographs. Correspondents include Heather Tosteson, Leon Kaufman, John Gardner, Paul Lauterbur, Jerome Singer, Lila Maron, Lawrence Crooks and others.

carton 34,
folders 34-36
carton 72, folder 1
carton 72, folder 2
carton 72, folder 3
carton 72, folder 4
carton 72,
folders 5-6
carton 34,
boxes 5-7,
oversized-box 3,
case D

Lawrence Crooks writings and correspondence with publishers 1977-2002

David Feinberg Radiology article illustrations and photographs 1985

Diagnostic Imaging Intelligence Report issues 2006

Toshiba publications and newsletters 1992-2002

Diasonics employee announcements and newsletters 1982-1984

Diasonics annual reports and financial statements 1979-1989

Informational audiovisual and graphic material 1980-2010

carton 34,
folders 16-33

Marketing photographs 1983-1988

Scope and Contents

Photographs used at conferences and sales presentations. Includes prints, negatives, and slides. Subjects include scans, lab members, buildings and site installations, and MRI scanners and machine parts.

box 5
boxes 5-7

Toshiba "The T.A.M.S. Home Companion" audiocassettes 1990

Marketing video recordings 1987-1991

Scope and Contents

From the files of Karen Pearson. Includes 24 VHS videocassettes created by Toshiba, Diasonics, Enertech Group, Laser LTD., Christopher Kent of Ramsey Radiology Services, Motivation Media, and Kontron Electronics. Subjects include MRI installation and selling, system operations, introductions to magnetic resonance imaging, Radiological Society of North America (RSNA) and conference presentations, and press releases.

box 7

Brian Dolan "MRI Documentary" hard drive circa 2010

Scope and Contents

Hard drive of Brian Dolan, PhD. Includes footage and other digital material related to his 2010 documentary, "Visionary Medicine: Bio-Entrepreneurship and the Invention of MRI." Added to the collection in 2016.

oversized-box 3,
folders 1-4,
case D,
drawer 1-4
cartons 35-43,
carton 72,
folders 14-21,
boxes 1-4

Conference posters circa 1980-1995

Patent records and correspondence 1976-2001

Scope and Contents

Includes patents, patent applications, invention disclosure forms, license agreements, and correspondence with attorneys and various University of California patent, royalty, and technology transfer offices. Correspondents include Toshiba, Roger Ditzel, Terence Feuerborn, Mitsuaki Arakawa, Nixon and Vanderhye P.C., Leon Kaufman, Lawrence Crooks, Valentin Fikovsky, John Lundberg, Albert Macovski, Hiroshi Miyachi, Martin Simpson, John Hoenninger, Carl Wootten and others. Patent records are mostly arranged by UC case number. Contact the UCSF Archivist for an incomplete inventory of patent case numbers and titles.

Conditions Governing Access

Patent records are restricted. Contact the UCSF Archivist for information on access to these files.

cartons 44-50,
box 4

Jerome R. Singer v. The Regents of the University of California court records 1963-1996

Scope and Contents

Contains material regarding the 1990s lawsuits of Jerome R. Singer v. the Regents of the University of California. Material relates to patents, royalty payments, and disputes between the UC and RIL concerning inventions.

Conditions Governing Access

Court records are restricted. Contact the UCSF Archivist for information on access to these files.

cartons 44-47

Respondent's/cross-appellant's appendix in lieu of clerk's transcript, volumes 1-37 1996

cartons 47-48
carton 48,
folders 9-14,
carton 49,
folders 1-14
carton 49,
folders 15-28,
carton 50,
folders 1-32,
box 4, folders 4-6

Appellants' appendix in lieu of clerk's transcript, volumes 1-6 1996
Court transcripts 1995-1996

Depositions, exhibits, and correspondence 1963-1996

Scope and Contents

Box 49, folder 28 includes videocassette, "TAMI Your MR Exam."

cartons 51-66,
69-71

Patient records 1978-1994

Conditions Governing Access

Patient records are restricted. Contact the UCSF Archivist for information on access to these files.

carton 51,
folders 1-3

Tape logbooks 1987-1993

carton 51,
folders 4-5

System logbooks 1982-1994

cartons 51-54

Patient logbooks 1981-1990

carton 54

Human subject research consent forms 1978-1988

cartons 54-66

Clinical case records 1982-1986

cartons 69-70

Magnetic tape reels of scans circa 1990

carton 71

TK50 CompacTape 1/2 inch cartridges of scans circa 1990

cartons 67-68,
oversized-box 4-6,
case D

Artifacts circa 1985-1995

cartons 67-68,
oversized-box 4-5

MRI head and body coils and computer system components circa 1985-1995

Scope and Contents

Four coils and machine parts. Detailed descriptions included with objects.

oversized-box 6
case D, drawer 4

Scale model of magnetic resonance imaging scanner undated

MR Room magnet warning sign undated