C. Andrew L. Bassett Papers

23.33 cubic feet (70 boxes)

**Biographical Note:** Charles Andrew L. Bassett, usually known as Andrew Bassett, was born August 4, 1924 in Crisfield, MD. Bassett enrolled in Princeton in 1941 intending to pursue an engineering degree, but in 1943 he was called to active duty with the Air Force Enlisted Reserve. He served as a corpsman with Patton’s Third Army, where he received basic medical training that inspired him to undertake a medical career and to specialize in orthopedics.

After the war, Bassett completed additional pre-medical work at Washington and Lee University in Virginia and City College of New York before attending the Columbia University College of Physicians and Surgeons (P&S), earning his MD in 1948.

In 1950, Bassett was an orthopedics resident at Presbyterian Hospital when the Korean conflict called him back to the military. He served in the Navy at the Tissue Bank at the National Naval Medical Center in Bethesda, Maryland. After further training at St. Luke’s Hospital (New York, NY), Mary Imogene Bassett Hospital (Cooperstown, NY) and the New York Orthopedic Hospital (New York, NY), he returned to P&S as a Junior Kane Fellow in Orthopedic Surgery in 1953, and in 1955, he joined the staff of P&S and Columbia Presbyterian Medical Center (CPMC). Also in 1955, he earned a Doctor of Medical Science degree from Columbia. Bassett remained at Columbia and CPMC for the bulk of his career, serving as a professor of orthopedic surgery from 1967 to 1982, and as the head of the Orthopedics Research Lab from 1957 to 1986. He was engaged in private practice from 1986 until his death in 1994.

Within orthopedics, Bassett both invented and specialized in the field of bioelectromagnetics. In 1962, he worked with Robert O. Becker to define the electrophysiological base of bone, and then proceeded to devote his career to performing pioneering clinical research exploring the therapeutic uses of pulsed electromagnetic frequencies (PEMFs) most notably in the areas of recalcitrant fractures, nerve regeneration, wound healing and tissue revascularization.

Bassett received numerous awards and prizes for his work, including the Max Weinstein Award from United Cerebral Palsy (shared with J.B. Campbell); the Joseph Mather Smith Prize from Columbia in 1971; and the D’Arsonval Prize for Bioelectromagnetics from the Bio-Electromagnetics Society in 1991. He was also a fellow of the American College of Surgeons and the American Academy of Orthopaedic Surgeons.

In addition to his academic work, Bassett was involved in the commercial side of orthopedics. In 1979 he co-founded Electro-Biology, Inc. (EBI) in order to to produce the
Bi-Osteogen device which he had co-designed with Arthur A. Pilla, and following his departure from CPMC and P&S, he moved on to his second venture: co-founding Osteodyne Inc., in Research Triangle Park, NC.

Bassett was a prolific writer and speaker, attended numerous national and international conferences and meetings, served as an expert witness on medical uses of electricity and electro-magnetic waves, and was a member of numerous federal and private committees, including the National Research Council’s Committee on Skeletal Research and the Food and Drug Administration’s Ad-Hoc Committee on Medical Devices.

Basset died in 1994 in New York of a brain tumor, and was survived by his wife, Nancy; his brother, Govert L. Bassett; three children; and three grandchildren.

**ARRANGEMENT/ORGANIZATION:**

**SCOPE & CONTENT:** The papers document Basset’s academic career at P&S and his later private practice. There is very little information on his personal life. Included are correspondence; conference papers; research notes; raw data, photographs and x-rays from experiments; publicity files; treatment protocols for specific injuries/ illnesses; video and audio recordings; grant applications and reports and other fundraising correspondence; materials from cases where he served as an expert witness, as well as various malpractice suits against him; and a limited quantity of patient records.

Note: The two correspondence series overlap in terms of topics and time periods covered, and researchers should be sure to consult both of them when searching for materials.

**Series I. Correspondence and subject files, 1976-1994**
**Boxes 1-17**
Records include correspondence on various topics with fellow orthopedic surgeons (colleagues and friends), professional societies, and government agencies, as well as records relating to grants and other funding sources for experimental projects and research and development records for business Bassett founded or co-founded. There is significant volume of records regarding the following institutions or topics: Bioelectric Magnetics Society (BEMS) (1978-1994); Electrobiology, Inc. (EBI), 1991-1994; and scholarly manuscripts reviewed for publication, (1989-1994). Arranged alphabetically.

**Series II. Correspondence and subject files, 1959 – 1992.**
**Box 17-34**
Records include correspondence on various topics with fellow orthopedic surgeons (colleagues and friends), professional societies, and government agencies, as well as records relating to grants and other funding sources for experimental projects and
research and development records for business Bassett founded or co-founded. There is significant volume of records regarding the following institutions or topics: Electrical therapy (1959-1974); Food and Drug Administration (1963-1988); Johnson & Johnson (1971-1980); and the National Research Council (1964-1970); arranged alphabetically.

Boxes 34-38
Grant applications and reports produced for various scientific agencies in pursuit of multiple research topics; arranged chronologically.

Series IV. Lectures and Meetings, 1966-1994
Boxes 38-48
Lectures given and meetings attended by Bassett, multiple topics and organizations; arranged chronologically.

Sub-series are as follows:

Correspondence regarding lectures he refused as well as general lecture ideas.

Correspondence and other records from meetings attended and lectures given.

Boxes 48-52
Records of legal cases where Bassett served as an expert witness or was otherwise involved; arranged alphabetically.

Boxes 52-55
Articles on various topics authored or co-authored by Bassett. About one-third of the materials were collected, arranged and indexed by Basset; the remainder were found loose in the files, and arranged chronologically.

Sub-series are as follows:

Transferred from binders to folders, some indexes available; arranged chronologically.

Found loose in the box, arranged chronologically.

Boxes 56-68
Records documenting Basset’s years as director of the Columbia University Orthopedic Research Lab, and his personal and collaborative research, including data sheets, animal record books, and others related materials; arranged alphabetically and then chronologically.

Sub-series are as follows.

Annual reports, correspondence, memos, data, protocol documents and other materials from the Columbia University Orthopedic Research Lab; arranged alphabetically and then chronologically.

Notes and correspondence relating to research by Bassett and others on impact of PEMFs on avian chondrocytes, avian fibroblasts, avian rudiments, avascular necrosis, bacteria, disuse osteoporosis, spinal cord regeneration, fracture grafts, and other topics. There is significant material related to the following topics: cancerous tumors in mice (1971-1981); radial osteotomies (1974-1981); rat osteoporosis (1976-1979); sciatic nerve regeneration (1978-81); and a skin lesion study (1981). Arranged alphabetically and then chronologically.

Sub-series 7.3: (1.5 boxes, .55 cu. feet) Uncategorized research data, 1960-1976.
 Assorted research notebooks and data sheets from an unnamed experiment; arranged chronologically.

Boxes 68-69
Cases that were either related to ongoing research, followed by Bassett over many years, or may otherwise be of academic interest.

Box 69-70
Audio and video tapes of lectures and television and radio interviews, loose in box.

Sub-series are as follows:

A portrait of Dr. Basset, several photographs of PEMF equipment, and examples of explanatory figures, arranged chronologically.

Interviews on the therapeutic uses of pulsed electromagnetic fields, the Bi-Osteogen system and ununited fractures.
Appearances on the Today Show, in By the Year 2000 series, and at a Bioelectromagnetic Society (BEMS) Annual Meeting.

LANGUAGES: English, French, Spanish, German, and Japanese.

ACCESS: Because the records include Protected Health Information (PHI) as defined by the US Health Insurance Portability and Accountability Act (HIPAA), access is allowed only under the terms of Archives and Special Collections’ Access Policy to Records Containing Protected Health Information.


PROCESSING NOTES: Processed and finding aid written by Jennifer McGillan, May-November 2010. Duplicates, loose x-rays, previously published photographs and patient records lacking in historical value or research interest were discarded. Photographs and audio-visual materials were separated from correspondence files and made into a separate series.

SUBJECTS - LC
Adey, Ross.
Bassett, C. Andrew L.
Becker, Robert.
Cook, Ian.
Duriez, Jean.
Fell, Honor B., Dame.
Sharrad, William.
Thompson, Roby C.

American Academy of Orthopaedic Surgeons.
Bioelectronics.
Bioelectromagnetics Society (Gaithersburg, Md.)
Bioelectromagnetism.
Bioelectric Repair and Growth Society.
Columbia University Medical Center. Orthopedic Research Lab.
Electrobiology Inc.
Johnson & Johnson, inc.
Kirlian photography.
Medical devices.
National Aeronautics and Space Administration (U.S.)
National Institute of Health (U.S.)
National Research Council. Committee on Surgical Devices.
National Science Foundation (U.S.)
Orthopedics – Research.
Orthopedics – United States.
Orthopedists – United States.
Orthopedists – Malpractice – United States.
Strangeways Research Laboratory (Cambridge, England).
United States. Food and Drug Administration. Ad Hoc Committee on Medical Devices.
United States. Food and Drug Administration. Medical Devices Advisory Committee
Visual display terminals.

**SUBJECTS - MeSH**

Bone and bones.
Bone regeneration.
Electricity.
Electromagnetic Phenomena/therapeutic use.
Electric Stimulation Therapy/methods.
Femur head necrosis.
Fracture healing.
Fractures, Bone/Therapy.
Fractures, Ununited/therapy.
Legg-Perthes Disease.
Magnetic Field Therapy.
Medical Devices.
Osteogenesis.
Osteonecrosis.
Osteoporosis.
Osteotomy.
Wound Healing.

Box and Folder List

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**Electrobiology, Inc. (EBI)**

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9  Progress report, biomedical report of PEMFs, 1983
10 Effects of pulsed electromagnetic fields (PEMFs) on fresh fracture repair, 1983-1984
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14 Contributions of tabulation and pulsing electromagnetic fields to neural regeneration, 1988
15 Grant narrative, PEMFs and bone formation, n.d.
16 Physiology basis of rehabilitation medicine, Darling and Downey, n.d.

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| 39 2 | NY Academy of Science, Conference on Solid State Dynamics, 1967-68 |
| 39 3 | Influence of Forces on Bone at Current Concepts of growth and development pertinent to orthodontics and pedodontics (summer course), 6/26-30/1967 |
| 39 4 | Electromechanical Factors controlling bone structures, Brown University, 2/22/1968 |
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22 AOA Coronado, CA, Transactions, Journal of Bone and Joint Surgery, Fall 1985

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3 Animal records, rats, dogs and rabbits, and drug supplies, 1978-79
4 Animal records, Lee Bassett, R. Pawluck, R. Hopkins, 1/78-1/79
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3 EBI Protocol rat data, c. 1976
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12 Research notebook, experimental study of effects of electromagnetic fields on tumor growth in Balb C mice, 1973
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61 1 Mouse tumor photos, n.d.
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3-4 Correspondence, 1971-1981
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6 Partial summary of studies investigating the effect of EMF on sarcoma and research notes, 1973-76
7-8 Effect if Meth A sarcoma in Balb C mice, data sheets, n.d. 1970s,
9 Tumors and mice reports and data, 1973-79
10 Effect of electromagnetic fields (EMF) on Meth A sarcoma in Balb C mice, summary, 1974-77
11 Effect of EMF on Meth A sarcoma in Balb C mice, rough data, 1974-77
12 Cancer paper, 1st draft, 7/8/1974
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15 Effect of EMF on Meth A sarcoma in doto (?) mice, rough data, 1978-79
16 PEMF effect on Meth A sarcoma in bc mice, final statistical analysis, 1978-79
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19 Tumor study, Swiss Webster mice, 1981

62 1 Chokshi PEMF specs, DNA, 1976-79
2-3 PEMF effect on avian chondrocytes in vitro, 1977
4 PEMF effects on avian chondrocytes in vitro, Sterna Chokshi, 1978
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6 Effect of PEMF on avian chondrocyte cultures (confluent), Chokshi, egg embryogenesis, 1978-79
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11 PEMF effect on confluent chondrocyte cultures, data sheets and graphs, (Mod. Dziak and Brand), 1979
12 EMF effect on avian embryogenesis in vivo, 1978-79

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- 29623, 35 days, 1979-80
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| 13 | Slots and osteoporosis, with average total body weight lose, 7, 14, 28 day, Dr. Lee, n.d. |
| 14 | Rat osteoporosis, data sheets and analysis, 1977 |
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**66** 1 Effect of electromagnetic fields (EMF) on rudiment in vitro uridine/thymidine uptake, Sept.- Dec 1978

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3 Data sheets, Dr. Ito, 1978-80

4 PEMF’s effect on sciatic nerve regeneration in SD rats, J. Kort and Ito, 1979

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    4 Paper on pulsed magnetic fields, I.A.C., 1983-86 (2 ff)

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5  Strangeways research note book, n.d. c. 1960s
6  Notebook, Walker 256 Sarcoma rat, ESB circuits, 1972
7  Electrostatic and electromagnetic TCNR Nanda Roy notebook, 1973
8  Research notebook, EM ES TC GP, 1974-75

68  1 Research tables, n.d.
    2 Research data, all study batch A-H, n.d. c.1970s
    3 Research data, all study of batch J, K, n.d.
    4 Research data, batch B, 1974
    5 Research data, batch C, 1973
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   12 Research data, batch L, n.d. c. 1970s
   13 Research data, batch M, killer CKT, 1974
   14 Research data, batch M and N, 1973
   15 Research data, batch P, n.d. c. 1970s
   16 Research data, batch Q, 1974
   17 Research data, batch R, n.d.
   18 Research data, batch S and P, other related notes and offprints, 1974-78
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   20 Research data, batch T, 1974
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23  R. B., 1988
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7   Equipment, n.d.
8   Mixed prints, equipment and x-rays, 1978-1986
9   Equipment on patient, 8x10, n.d.
10  Old PEMF equipment, n.d.
11  Portrait for “Conversations with C. Andrew L. Bassett, MD,” Orthopaedic Review, December 1979
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Paper No. 137 Total Invasive technique of Electrical Stimulation for Non-Union of Long Bones, Lunceford, Paterson and Kimbrough

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Symposium: Non Union: Bone Graft versus Electricity, 1980

Introduction: Pathophysiology and Diagnosis of Non-Union (Brighton)
Bone Graft Surgery (Heppenstall)
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Direct Current (Brighton)
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EBI Avascular Necrosis Treatment System, The Today Show, July 24, 1985
