Guide to the Collection of William C. Pittman

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M. Louis Salmon Library,
University of Alabama in Huntsville,
Huntsville, AL 35899
2012
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Contact Information:
Department of Archives/Special Collections
M. Louis Salmon Library
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URL:http://www.uah.edu/library/about/department/archives.htm

Descriptive Summary

Title:  Collection of William C. Pittman

Collection number:  Special Collections William C. Pittman

Creator:  William C. Pittman

Extent:  2 linear ft.


Administrative Information

Access Restrictions:  None

Publication Rights:  Property rights reside with the repository.

Provenance:  Gift of William C. Pittman.

Preferred Citation:  [Identification of item] Collection of William C. Pittman, Dept. of Archives/Special Collections, M. Louis Salmon Library, University of Alabama in Huntsville, Huntsville, AL.
Scope and Content

The Collection (2 linear ft.) Includes a total of 4 Archival Boxes containing 5 subject folders. The William C. Pittman collection is primarily focused on his accomplishments while working for the Army Ordinance Missile Laboratories; Army Ballistic Missile Agency (ABMA), Marshall Space Flight Center (MSFC), Army Missile Laboratory (AMA) and Army Aviation and Missile Research and Development Center (AMRDEC).

Biographical Note

William C. Pittman began his civilian career with the Army’s rocket development team at Redstone Arsenal where he supported the 1953 history-making launch of the first Redstone rocket. In 1999, Pittman retired from his work at the Aviation and Missile Research Development and Engineering Center. William C. Pittman a graduate of Mississippi State in 1951 was recruited by the Army to work on rocket development at the Ordnance Missile Laboratories. William C. Pittman was among several American scientists and engineers who joined with the German rocket team to form the Army Ballistic Missile Agency in 1955. Pittman worked in the agency’s Development Operations Division under the direction of Dr. Wernher von Braun. In 1958 NASA was created. In 1960, the German rocket team along with Pittman became part of NASA’s new Marshall Space Flight Center. After a year, Pittman left MSFC to rejoin the civilian Engineers at the Army’s Missile Laboratories. Pittman has been involved in the scientific research of many of the missiles developed and designed at Redstone Arsenal including Hercules, Pershing and Hellfire. His name can be found on hundreds of research papers on missile technologies, and connected to many patents taking those technologies into the commercial realm. He has received many accolades during this career. In 1994 he received the Meritorious Civilian Service Award (1986-1993, the highest award giving to a Department of the Army civilian.

Note to Researcher

The Guide to the William C. Pittman Collection is organized into five major subjects or series. Details on documents contained within each of the major subjects can be found by accessing the online database http://www.uah.edu/library, or manually from the University of Alabama in Huntsville, M. Louis Salmon Library. Dept of Archives/Special Collections, located in the lower level of the library.

All materials of this collection—books, documents, artifacts, photographs, drawings, film or film clips etc.—may not circulate outside of the library.

Index To Career Summary For William C. Pittman

Series 1

1.01 Ordnance Missile Laboratories, Army Ballistic Missile agency and Marshall space Flight Center.
1.02 The FM-FM Telemetering System Applied to the Redstone Missile.

1.03 Recollections of the Beginning of the Space Program.

1.04 IRE Professional society Activities in the 1950s.


1.06 President Alabama-Mississippi Section AIAA-1981-1982.

1.07 Indicators of national Recognition.

1.08 Special Training.

1.09 Plans for 30th ABMA Anniversary.

1.10 W. C. Pittman day Pontotoc Mississippi, February 25, 1992.

1.11 Sick Leave Conservation.

1.12 Nomination of William C. Pittman for the Department of the Army Meritorious Civilian Service Award.

1.13 Nomination of William C. Pittman as Federal Employee of the Year.


1.15 Recognition of 50 years of Federal Service.

1.16 Cash Awards for Patents.

1.17 Commendation Certificates.


1.19 Highlights of Accomplishments of William C. Pittman for Calendar Year 1993.

1.20 Membership In The Army Acquisition Corps.

1.21 Commendation Letters, 1982-1996.

1.22 Biographical Citations.

1.23 Biography of William C. Pittman.
Documented Contributions of William C. Pittman to Industrial engineering Practice.

Accomplishments of William C. Pittman Under the AMRDEC. Volunteer Emeritus Program.

Publication List for William C. Pittman.

Recognition by SAR and DAR.

Patent Cash Awards.

Memory snapshots from the Beginning of the Space Program.

Individual Files.

Photographs.

Series 2 Patents Issued

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<td>2.01</td>
<td>7,518,097 Reconfigurable Imaging System.</td>
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<tr>
<td>2.02</td>
<td>7,381,937 Image analysis and enhancement system.</td>
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<tr>
<td>2.03</td>
<td>7,193,214 Sensor having differential polarization and a. network comprised of several such sensors.</td>
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<td>2.04</td>
<td>7,040,570 Weather-agile reconfigurable automatic target recognition system.</td>
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<td>2.05</td>
<td>6,987,256 Polarized semi-active laser fast pulse logic seeker using A staring focal plane array.</td>
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<td>2.06</td>
<td>6,392,782 Photonic band gap dual-spectrum sensor.</td>
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<td>2.07</td>
<td>6,347,762 Multispectral-hyperspectral sensing system.</td>
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<td>2.08</td>
<td>6,313,784 Millimeter-wave zoom antenna for guiding beamrider Hypervelocity missile.</td>
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<td>2.09</td>
<td>6,310,345 Polarization-resolving infrared imager.</td>
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<td>2.10</td>
<td>6,081,232 Communication relay and a space-fed phased array Radar,both utilizing improved mach-zehnder interferometer.</td>
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2.11 6,042,050 Synthetic discriminant function automatic target Recognition system augmented by LADAR.

2.12 5,982,329 Single channel transceiver with polarization diversity.

2.13 5,944,281 Dual band millimeter-infrared fiber optics guidance Data link.

2.14 5,344,099 Missile beamrider guidance using polarization-agile beams.

2.15 5,064,140 Covert millimeter wave beam projector.

Series 3

Index of Technical Reports, Conferences and Workshop Papers

3.01 Trends in Tactical Missile Guidance and Control Strategy and program Formulation.

3.02 Evolution of the DOD Microwave and Millimeter Wave Monolithic IC Program.

3.03 Understanding Horizontal Technology Intergration.


3.05 Book Reviews/Liberty Tree and the Sling and the Stone.

3.06 Future Army Missile Systems.

3.07 Special Report/Workshop on Metrics for Image Analysis and Automatic Target Recognition.

3.08 Ad Hoc committee on Scientific and Technical reports.

3.09 Special Report/Workshop on Microelectromechanical Systems.

3.10 US Army Missile command Infrared Focal Plane Array Requirements.

3.11 1991 Conference on the Producibility of of Infrared Focal Plane Array assemblies, Volume II.

3.12 Improving The Availability, Affordability and Producibility of Microwave and ?

3.13 Millimeter Circuit Technology for Smart Munitions.

3.14 Electromagnetic Window and dome Requirements for Self-Contained Munitions.
3.15 Sensor Technology and Seeker Development.
3.16 Micom Assessment of Army Research Office Program.

Series 4

**Proposed Multi-University Research Initiatives and Other Army Research Topics**

4.01 Proposed MURI FY-07 Spectral-Spatial ATR, January 2006.
4.03 Differential Polarization and applications, February 2005.
4.05 Multi-University Research Initiative (MURI)- Broadening the Horizons of Information Theory for Information dominance, 2004.
4.10 A Model for Jeffersonian Science: The Department of Defense Microwave and Millimeter Wave Monolithic Integrated Circuits Program.
4.14 Comments on Army Science Board AD HOC study on ATR and working group report on ATR, April 1996.


4.16 ARO-MRDEC Workshop on MEMS applications of MEMS Technology to Missiles January 1997.


4.20 Some Concerns About the Production Base to support the Army Thrust In self-Contained Munitions, September 1982.

Series 5

Index to Draft Invention Disclosures.

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<td>5.01</td>
<td>AMPC 5211</td>
<td>Elisa Towry, Pittman</td>
<td>Reducing the Vulnerability and improving the effectiveness of Manned and Unmanned Combat Systems.</td>
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<td>5.02</td>
<td>AMPC 5116</td>
<td>Pittman, Sims, Towry, Pratt</td>
<td>Transponder for Laser SemiActive Missle Guidance</td>
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<td>5.03</td>
<td>AMPC 5110</td>
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<td>Image Analysis and Enhancement System Image Enhancement Using Multiresolution Decomposition and Directional Filtering.</td>
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<td>AMPC 5110-Div</td>
<td>Ashley, Pittman</td>
<td>Abstract of the Disclosure</td>
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<td>Richard F. Sims and William C. Pittman</td>
<td>Weather-Agile Reconfigurable automatic Target Recognition System</td>
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<td>AMPC 5086</td>
<td>Joseph E. Grobmyer and William C. Pittman</td>
<td>Active Polarization-resolving Infrared Imager</td>
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<td>AMPC 5122</td>
<td>Dave Light, Tommy Lum and William C. Pittman</td>
<td>Hyperspectral-Focal Plane Air Defense Seeker.</td>
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<td>AMPC 5092-5097</td>
<td>Paul R. Ashley and William C. Pittman</td>
<td>Image analysis and Enhancement System.</td>
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<td>AMPC 5044</td>
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<td>Near-Infrared Polarimetric Image Processing</td>
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<tr>
<td>AMPC 4678</td>
<td>William C. Pittman and Huey F. Anderson</td>
<td>System for Detecting and Processing Polarized Infrared Radiation Utilizing a Staring Focal Plane Array.</td>
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