

Archiving Symposia
related to Washington and Berlin
(Events and Group Photos)







SIEMENS

ULTRASOUND

Siemens Contributions
Local Ultrasound

ULTRASOUND

First Commercial Real Time
Grey Scale Scanner
1984

HISTORY

ULTRASOUND

First Commercial Real Time
Grey Scale Scanner
1984

HISTORY

EMERGENCY

Award for Quality
1995

Special Award of
the State of North Carolina
1995







世界超声医学和生物学联合会 (WFUMB)
美国超声医学会 (AIUM)











ULTRASONICS INSTITUTE AUSTRALIA

GREY SCALE 1962

EYE 1964

BREAST 1966

BRAIN 1972

OCTOSON 1974

THE INSTITUTE

ORIGINAL NOTEBOOK 1962





































































医学和生物物理学学会 (FUMB)
超声学会 (AIUM)

医学超声史研讨会 (HMUS) 成功

中华医学会超声医学分会 敬赠
(SUM-CMA)

HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM



世界医学超声生物学会 (WFUMB)

美国超声学会 (AIUM)

世界医学超声史研讨会 (HMUS) 成功

中华医学会超声医学分会 敬赠
(SUM-UM)

HISTORY OF
MEDICAL ULTRASOUND

















Sounding the Body

A History of Diagnostic Ultrasound in the United States

Within the last 40 years a new, noninvasive technique for imaging the body has become increasingly important for diagnostic medicine. Known as diagnostic ultrasound, this technique uses ultrahigh-frequency sound waves to form pictures of the internal organs of the body. Many soft tissues that cannot be seen by x-rays are imaged well by ultrasound. Ultrasound scans have proved valuable to diagnose various complications of pregnancy, abnormalities in the developing fetus, and diseases of the heart, brain, eyes, and abdomen.

The historical roots of diagnostic ultrasound lie in discoveries in late-19th-century physics and in their applications to military and industrial needs.

Sound waves and the echoes they send back have been used to detect submarines and airplanes. Industries use the technology to test for flaws in metals. After World War II, physicists and engineers in Europe, Japan, and the United States began to investigate the application of ultrasound to medical diagnosis. By the mid-1970s medical diagnostic ultrasound had won wide acceptance in the United States and abroad.

This small exhibition will focus on some pioneering investigations, early clinical applications, and recent uses of ultrasound in medicine.

Early Applications

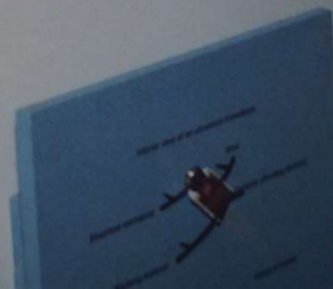
It is not until the second half of the 20th century that diagnostic ultrasound is used in medicine. Early applications of ultrasound in medicine were limited to the study of the heart and the fetus. The first medical diagnostic ultrasound was used in the late 1950s to study the heart.

Ultrasound

Ultrasound is a sound wave with a frequency greater than 20,000 cycles per second. It is used in medicine to study the internal organs of the body. Ultrasound is used to study the heart, the fetus, and the brain.

Medical Applications

Medical applications of ultrasound include the study of the heart, the fetus, and the brain. Ultrasound is used to study the heart, the fetus, and the brain.

































TOSHIBA
The
WORLD LEADER
IN
ULTRASOUND
TECHNOLOGY



TOSHIBA

The
WORLD LEADER
IN
ULTRASOUND
TECHNOLOGY





















HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

国际妇产超声学会 (IFUMB)
中国妇产超声学会 (CAUFD)
贵阳医学超声研讨会 (HMUS) 成立
1998年10月10日



HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

世界超声学会联合会 (WFUMB)
美国超声学会 (AIUM)

恭贺医学超声史研讨会 (HMUS) 成功

Okabe Suggestion of Medical Use
 Satomura Search of Cardiac Doppler

His superior, Prof. Kinjuro Okabe who was an authority of magnetron, advised Satomura to use the Doppler technique to assess motion in living bodies. According to Okabe's suggestion, Satomura advocated to try to apply the Doppler technique to human bodies, especially to the heart.

In response to this proposal, our group started to make a trial of applying the Doppler technique to human heart in site in June, 1955. This is the beginning of the Doppler technique in medicine.

HISTORY OF MEDICAL ULTRASOUND SYMPOSIUM

日本超音波医学会 (JMSU)
 日本産科超音波学会 (JMSU)
 日本医学超声研究会 (JMSU) 成立
 1955年6月
 日本産科超音波学会 (JMSU) 成立
 1955年6月



















HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

世界超声学会生物物理分会 (WFUMB)
国际超声学会 (AIUM)
台湾医学超声史研讨会 (HMUS) 成功







HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

世界超声医学与生物物理学会 (WFUMB)
美国超声学会 (AIUM)
首届医学超声史研讨会 (HMUS) 成功
中华医学会超声分会 (SUM-CRA) 赞助





HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

中华超声医学与生物物理学会 (CFUMB)
国际超声学会 (AIUM)

首届医学超声史研讨会 (HMUS) 成功





HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

世界超声生物医学联合会 (WFUMB)
美国超声学会 (AIUM)
首届医学超声史研讨会 (HMUS) 成功
中华医学会超声分会 (SUM-CRA) 张颢





HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM













HISTORY OF
MEDICAL ULTRASOUND





世界超声医学和生物学联合会 (WFUMB)
美国超声医学会 (AIUM)

恭贺医学超声史研讨会 (HMUS) 成功

中华医学会超声医学会 敬赠
(CSUM-CMA)



HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM













美国医学超声学会 (WFUMB)

国际超声学会 (AIUM)

美国超声学会 (AIUM)















































































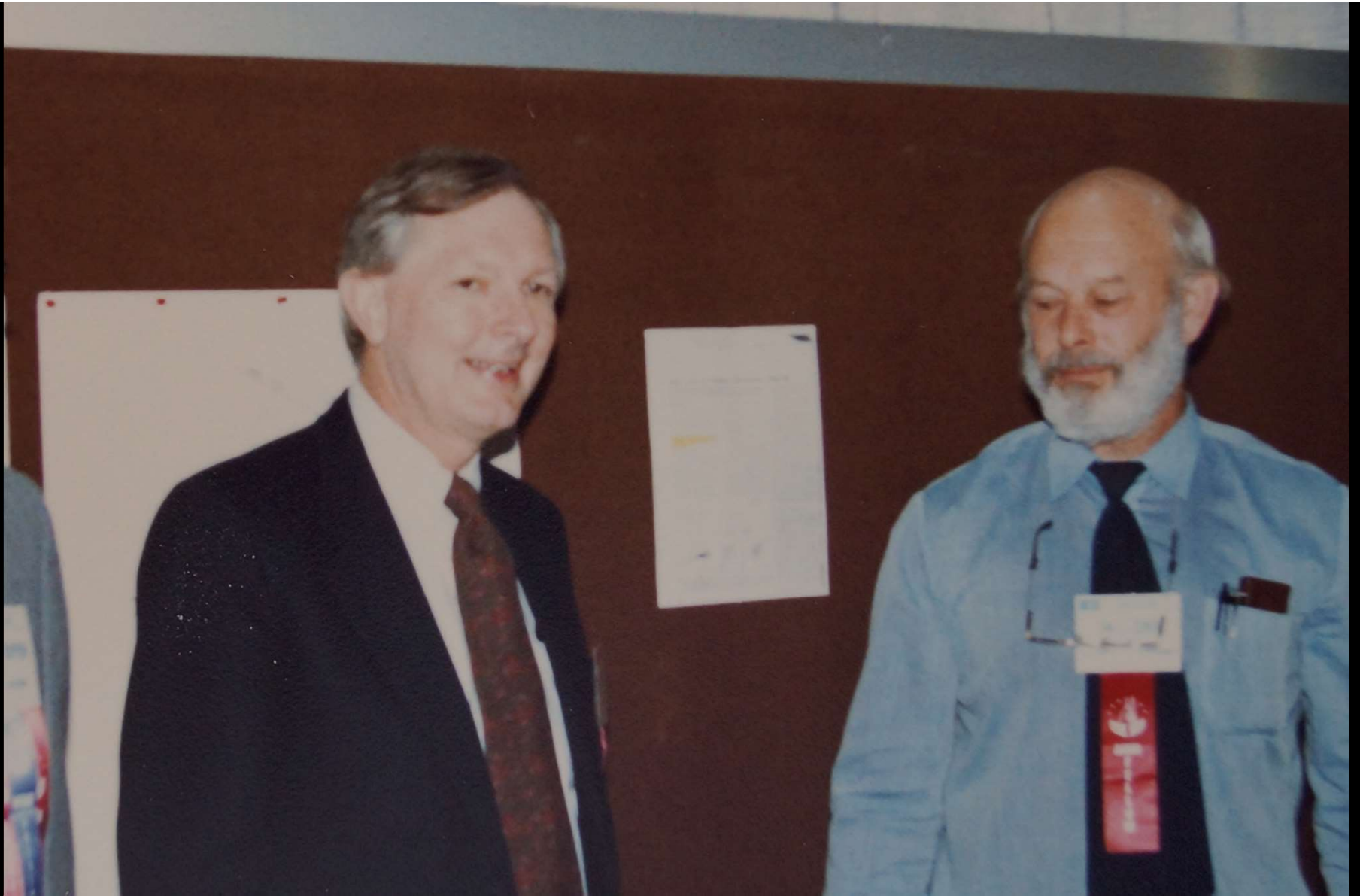
















HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

世界超声学会联合会(WFUMB)
中国超声学会(CAUM)
恭贺医学超声史研讨会(HMUS)成功
世界超声学会联合会
SUM-CHA



HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

世界医学超声学会 (WFUMB)
中国超声学会 (CAUUT)

首届医学超声史研讨会 (HMUS) 成功



HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

医学超声史研究会(HMUS) 成立





HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

医学超声史研讨会(HMUS)成功



HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

国际妇产科超声学会 (IFUMB)

美国妇产科超声学会 (AIUM)

泰国医学超声史研讨会 (HMUS) 成功

中华医学会超声分会 (SUM-CHA)



HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

香港醫學史研究會 (HMUS) 成功
1997年11月17日



HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

世界超声医学与生物医学学会 (WFUMB)
中国超声医学学会 (AUIU)
泰国医学超声史研讨会 (HMUS) 成功
中华医学会超声医学分会 (SUM-CHA) 敬赠











HISTORICAL
MEDICAL ULTRASOUND
SYMPOSIUM







世界生物物理学会 (WFUMB)
超声学会 (AIUM)

医学超声史研讨会 (HMUS) 成功

中华医学会超声医学分会 致谢
(SUM-CHA)
一九九八年十月

HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

EXIT



生物医学工程学会 (WFUMB)
学会 (AIUM)

医学超声史研讨会 (HMUS) 成功

中华医学会超声医学分会 敬赠

HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM



HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

世界超声医学和生物物理学会 (WFUMB)
美国超声医学学会 (AIUM)

恭贺医学超声史研讨会 (HMUS) 成功

中华医学超声学会 敬赠
(SUM-CHA)
一九八九年十月





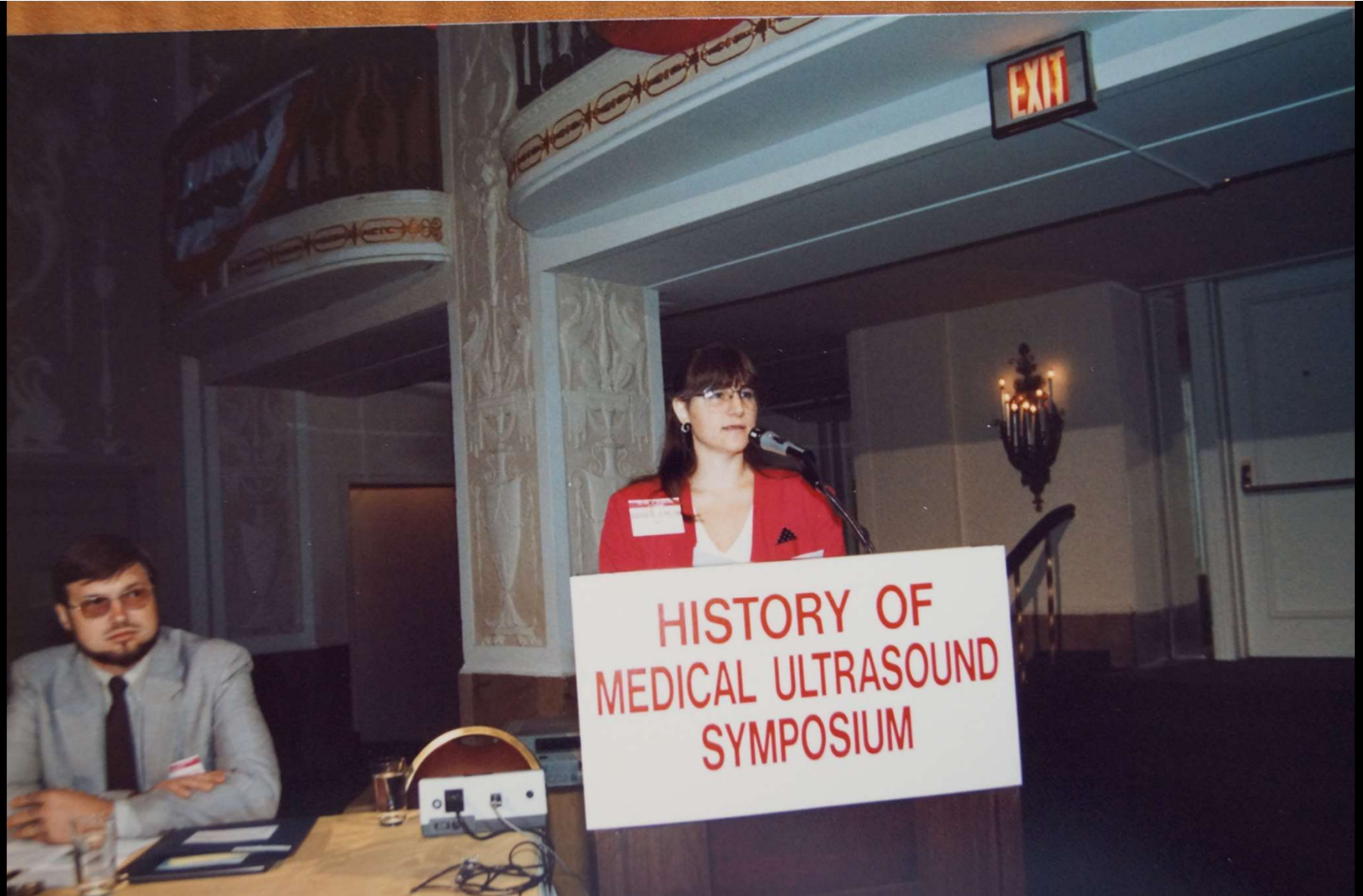


世界生物医学超声学会 (WFUMB)
美国超声学会 (AIUM)

医学超声史研讨会 (HMU)

HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM





...y of Medical
...nd Symposium
...er 15-16, 1988
...ington, D.C.



HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

世界超声医学和生物医学联合会 (WFUMB)
美国超声学会 (AIUM)
恭贺医学超声研讨会 (HMUS) 成功
中华医学会超声医学分会 敬赠
(SUM-CHA)







HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM











HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

EXIT



HISTORY OF
MEDICAL ULTRASOUND
SYMPOSIUM

世界超声医学与生物医学学会 (WFUMB)
美国超声学会 (AIUM)
超声医学超声文研讨会 (HMUS) 成功



