

**HISTORY OF
WOMEN COMPOSERS
IN
ELECTROACOUSTIC
MUSIC**

**FIRST OF ALL, IN A FEW WORDS,
WHAT IS
ELECTROACOUSTIC MUSIC
???**

Electroacoustic music is the art of composing music directly with sounds, no notes on paper.

it's music for magnetic tape produced in the studio by the composer, and using indifferently sounds of "CONCRETE" origin

(developed in France by Pierre Schaeffer in 1948)

and "ELECTRONIC" sounds

(developed in the early 1950s in Cologne, notably by Karlheinz Stockhausen)

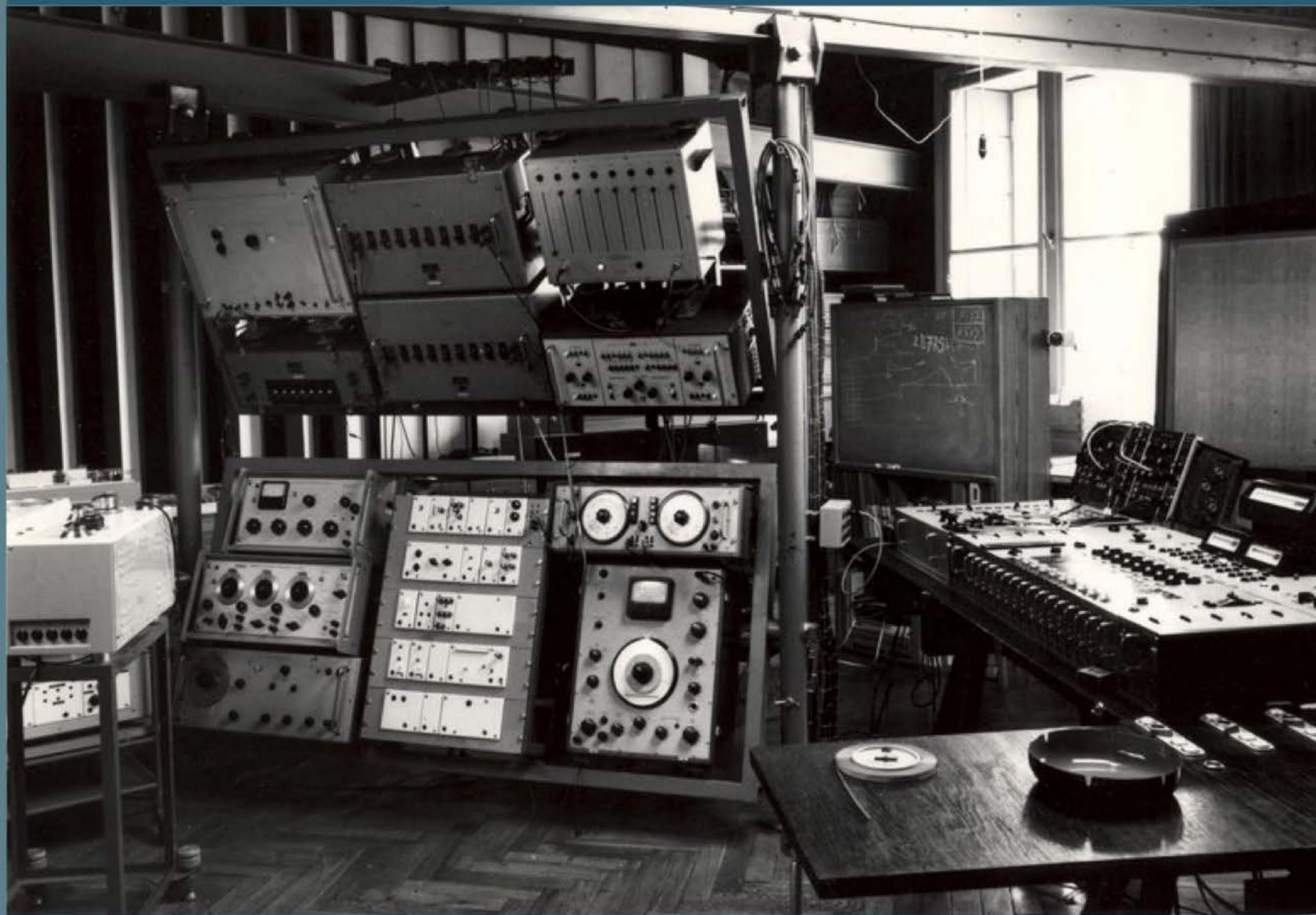
Sound elements are recorded,
manipulated,
and then played through numerous loudspeakers
to create sound immersion

**WHAT KIND OF
INSTRUMENTS ARE NEEDED**

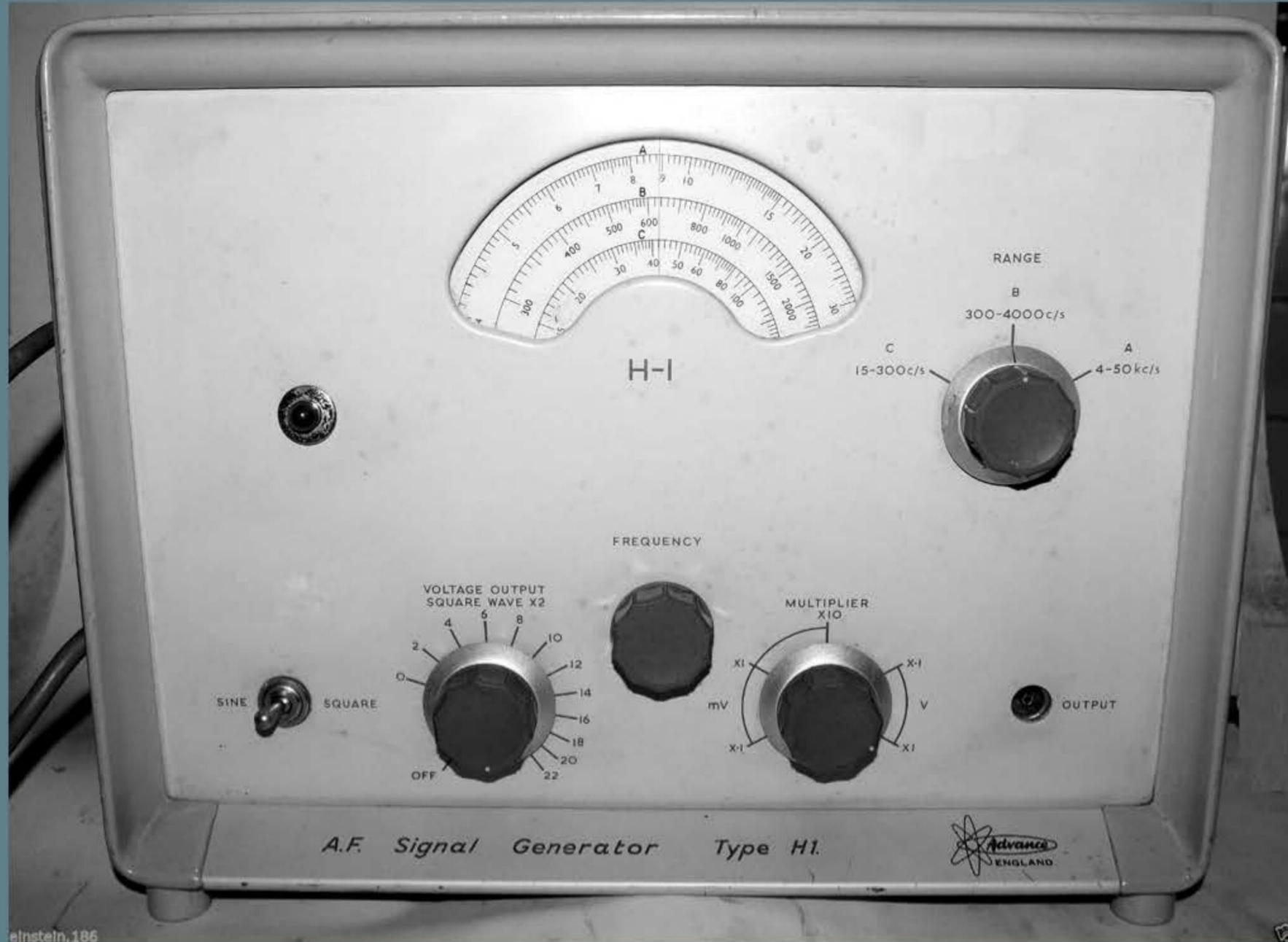
???



**FIRST
YOU
NEED
A
STUDIO
LIKE
THIS**



**OR
LIKE
THAT**



**A SOUND
GENERATOR
TO CREATE
ELECTRONIC
SOUNDS**



TWELVE SOUND GENERA TORS

Delia Derbyshire



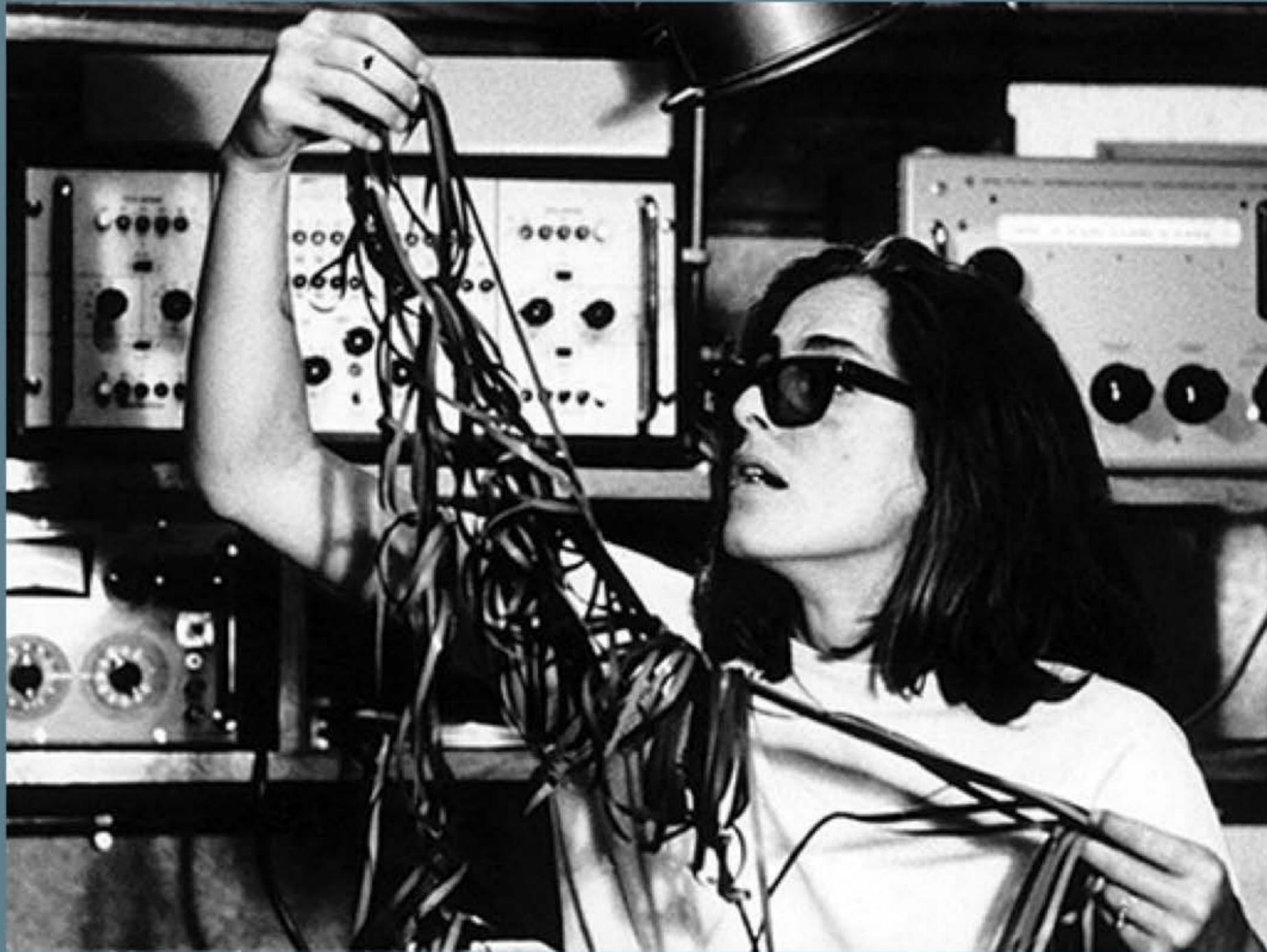
**PLENTY OF
MICROPHONES
TO RECORD A LOT
CONCRETE
SOUNDS**

A LOT OF LOUD-SPEAKERS





MANY TAPE RECORDERS



**A LOT OF
TAPE
LENGTH...**





**TODAY
THIS
DEVICE IS
ENOUGH
TO DO ALL
THAT...**

WHO ARE THE COMPOSERS ?



WHO ARE THE COMPOSERS ?

GRM - MUSICAL RESEARCH GROUP - FRANCE



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ONLY MEN ?

The BBC Sound Effects Department, 1927



UK - BBC - SOUND DEPARTMENT

The WALT DISNEY Sound Effects Department, 1938



US - WALT DISNEY - SOUND DEPARTMENT

**ISN'T THERE SOMETHING
STRANGE?**

**ISN'T THERE SOMETHING
STRANGE?**

REALLY ?

NO WOMEN COMPOSER ?

**IN FACT, MANY WOMEN HAVE MADE
MAJOR CONTRIBUTION TO THIS
MUSIC, BUT HISTORY HAS LEFT THEM
OUT...**





CLARA ROCKMORE

DAPHNE ORAM

BEBE BARRON

PAULINE OLIVEROS

DELIA DERBYSHIRE

MARYANNE AMACHER

ELIANE RADIGUE

SUZANNE CIANI

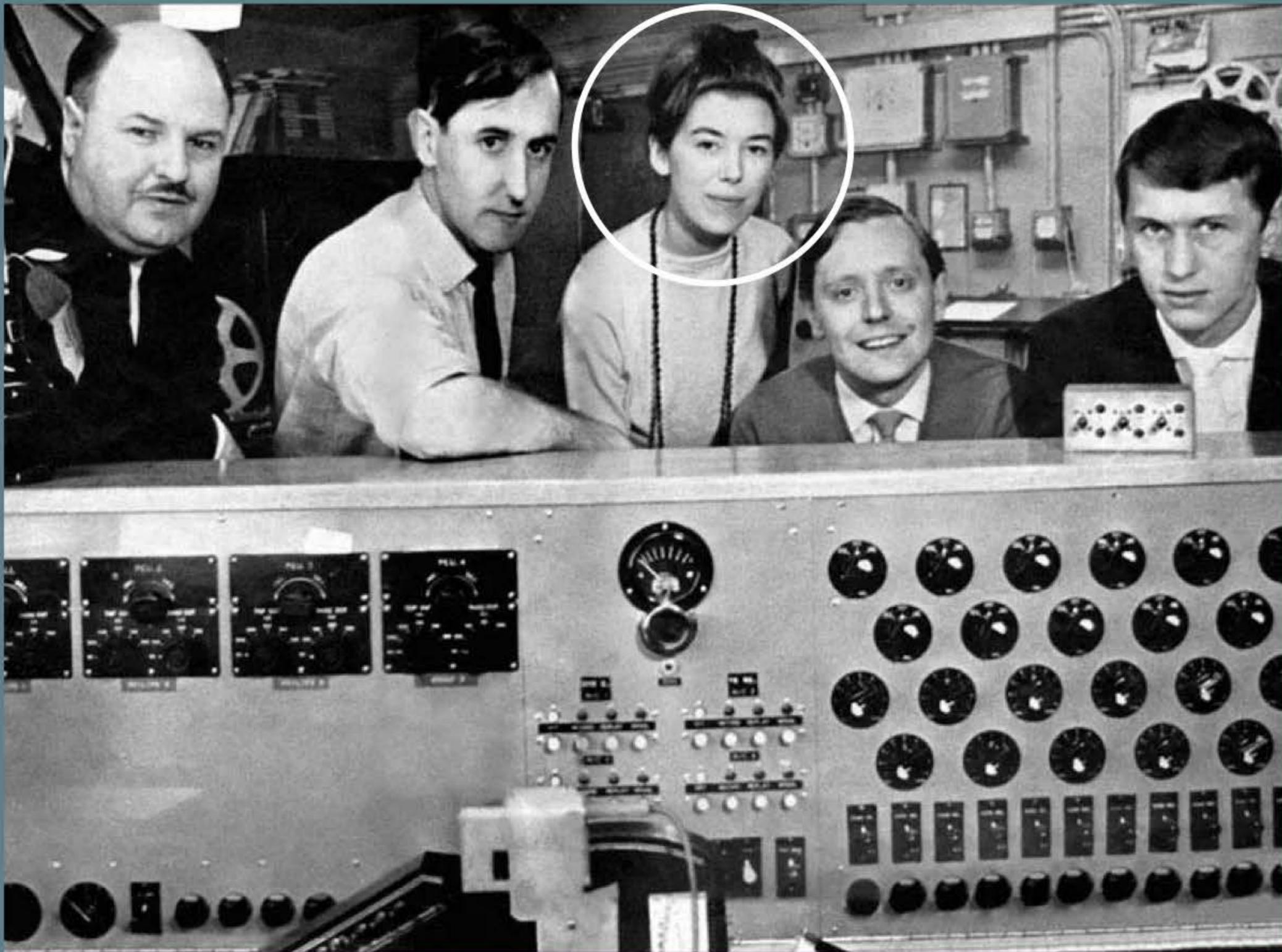
LAURIE SPIEGEL

WENDY CARLOS



**A FEW WOMEN
MANAGE TO EXIST
IN THIS STRONGLY
MALE
ENVIRONMENT,**

**HERE DAPHNE
ORAM AT THE BBC
(1958)**



**HERE DELIA
DERBYSHIRE
AT THE BBC
(1960)**

**THE HISTORY OF
ELECTROACOUSTIC DOES NOT
GIVE VISIBILITY TO FEMALE
COMPOSERS WHOSE MUSIC
HAS BEEN A MAJOR
CONTRIBUTION**

**HOWEVER, SOME FEMALE
COMPOSERS HAVE BEEN
ABLE TO ACHIEVE
WORLDWIDE RECOGNITION,
ONCE THEY HAVE
SUCCEEDED IN SCORING A
BOX-OFFICE FILM**

DAPHNE ORAM

« THE INNOCENTS » (1961)

« DOCTOR NO » JAMES BOND (1961)

BEBE BARRON

« FORBIDDEN PLANET » (1956)

DELIA DERBYSHIRE

« DOCTOR WHO » (1963)

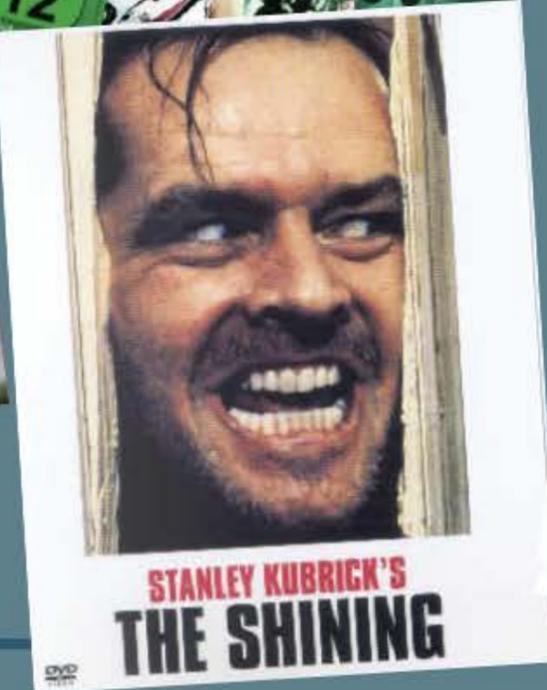
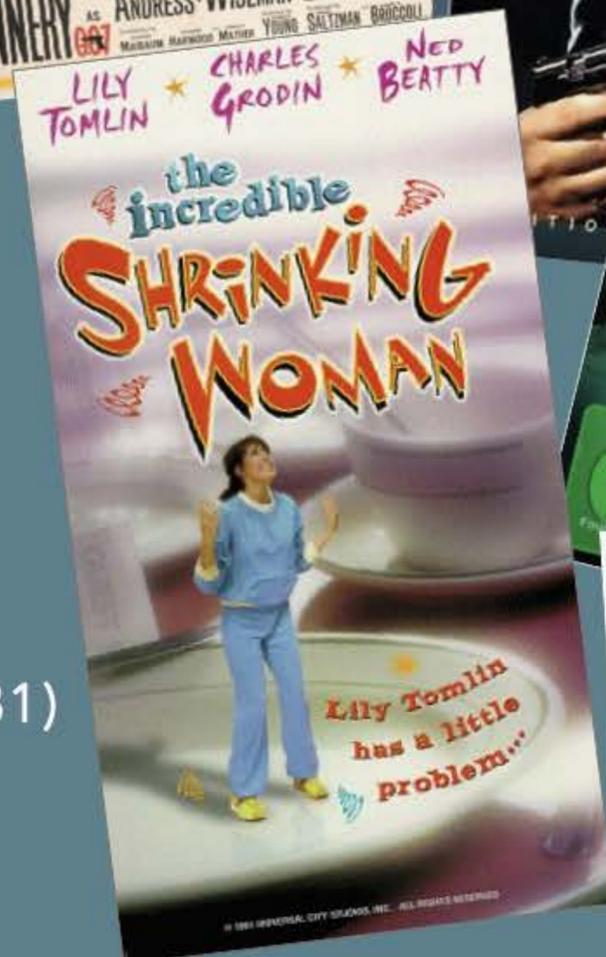
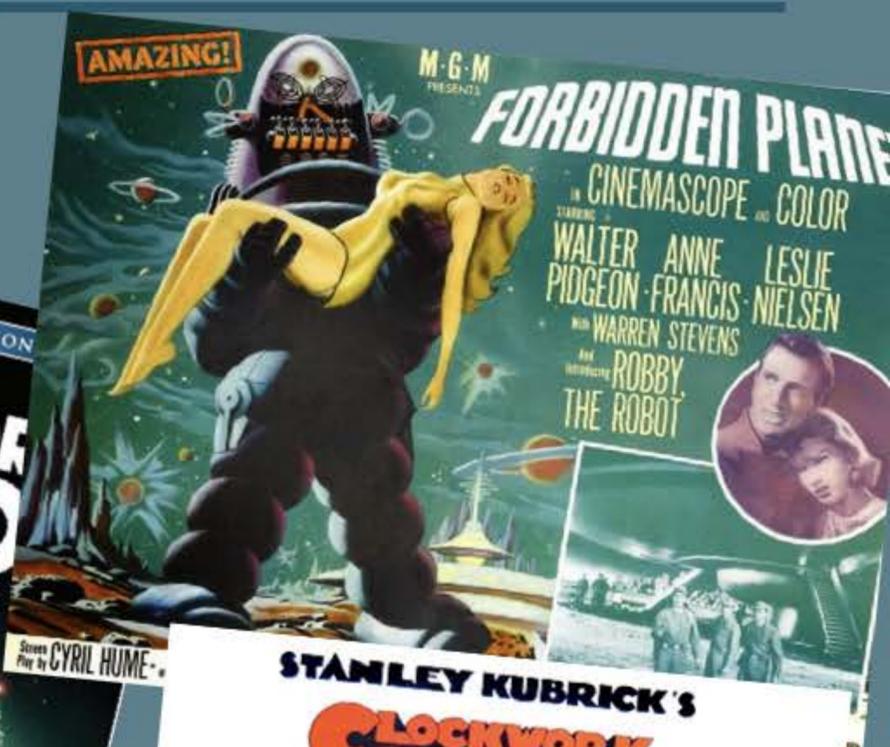
SUZANNE CIANI

"THE INCREDIBLE SHRINKING WOMAN » (1981)

WENDY CARLOS

« A CLOCKWORK ORANGE » (1971) STANLEY KUBRICK

« THE SHINING » (1980) STANLEY KUBRICK



METROGRAPH
PICTURES

SISTERS WITH TRANSISTORS

ELECTRONIC MUSIC'S UNSUNG HEROINES

NARRATED BY LAURIE ANDERSON



FEATURING: CLARA ROCKMORE DAPHNE ORAM
BEBE BARRON PAULINE OLIVEROS
DELIA DERBYSHIRE MARYANNE AMACHER
ELIANE RADIGUE SUZANNE CIANI LAURIE SPIEGEL



MADE WITH THE SUPPORT OF
THE ARIA FILM FUND

ANNA LENA FILMS PRESENTS SISTERS WITH TRANSISTORS
A FILM BY LISA ROVNER NARRATED BY LAURIE ANDERSON
EDITED MICHAEL AAGLUND KARA BLAKE MARIKO MONTPETIT
SOUND MARTA SALOGNI CO-PRODUCED BY MARCUS WERNER HED
EXECUTIVE PRODUCER ASHLEIGH ARRELL PRODUCED BY ANNA LENA VAN EY
WRITER AND DIRECTED BY LISA ROVNER

SISTERS WITH TRANSISTORS

Released in 2020 - Directed by Lisa Rovner

CLARA ROCKMORE

DAPHNE ORAM

BEBE BARRON

PAULINE OLIVEROS

DELIA DERBYSHIRE

MARYANNE AMACHER

ELIANE RADIGUE

SUZANNE CIANI

LAURIE SPIEGEL

WENDY CARLOS

DAPHNE ORAM

Born in 1925 - Devizes UK

She was one of the first people to produce and use electronic sounds in her compositions in the BBC Radiophonic Workshop and was a pioneer of concrete music



BEBE BARRON

Born in 1925 Minneapolis USA

With her husband Louis, who built her circuits, she was a American pioneer of electronic music





PAULINE OLIVEROS

Born in 1932 Houston USA

Avant-garde music explorer.

She is at the origin of the concept of Deep Listening which aims to differentiate the heard from the listened

His music is based on long sounds



DELIA DERBYSHIRE

Born in 1937 Coventry UK

**British composer and mathematician
Worked at the BBC Radiophonic Workshop and
reached true cult-hero status with her electronic
arrangement of the Dr Who Theme in 1963**



MARYANNE AMACHER

Born in 1938 Kane USA

**A student of Karlheinz Stockhausen and a collaborator of John Cage
She refuses to play classical notes of
« dead white men »**

His major works are almost exclusively installations, therefore specific to a place



ELIANE RADIGUE

Born in 1932 Paris France

First assistant to Pierre Schaeffer then to Pierre Henry

She developed a particular interest in tape feedback technique.

Her music is strongly influenced by Buddhism

She traveled to the United States where she met a number of minimalist composers : John Cage, La Monte Young, Steve Reich, Philip Glass

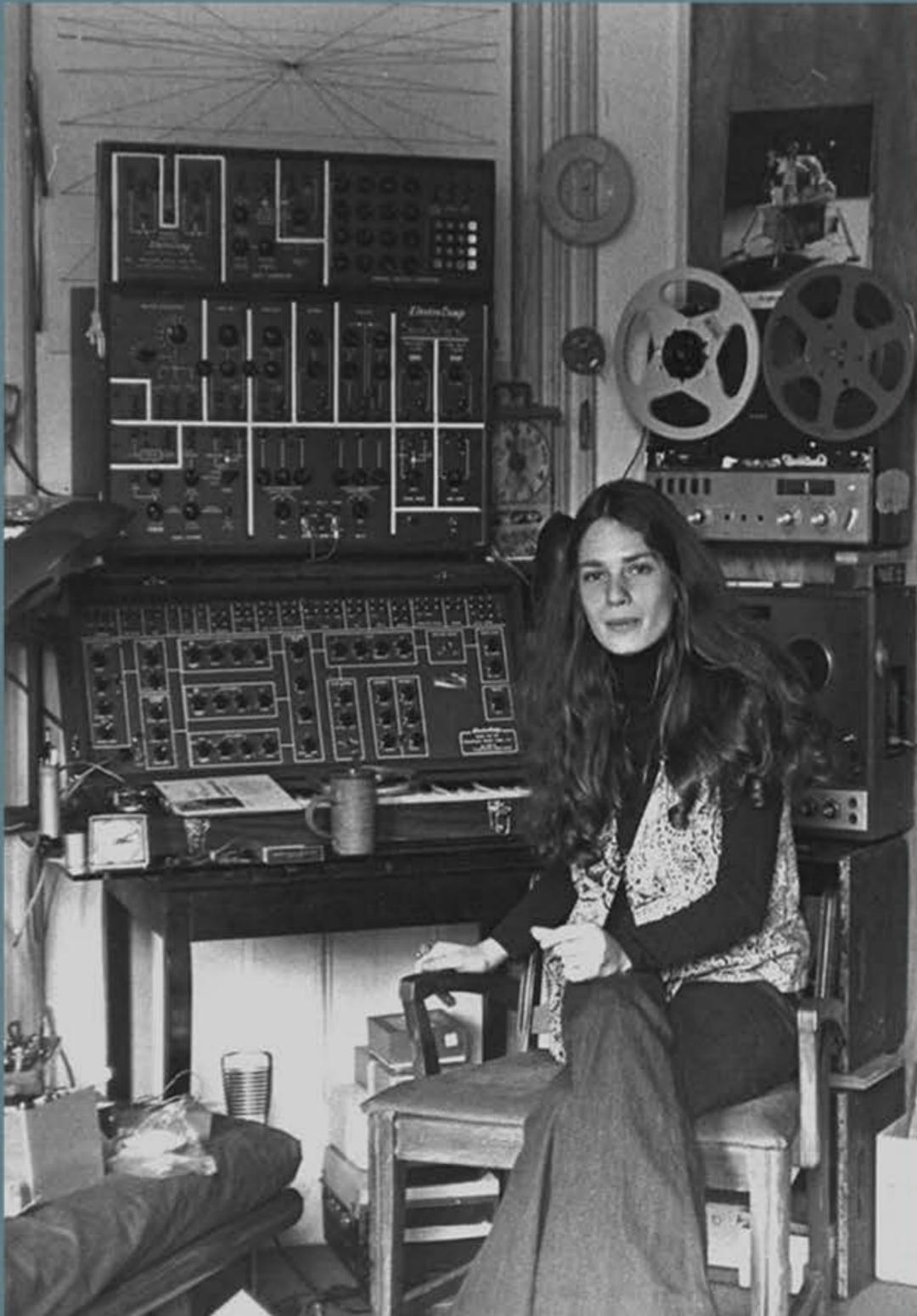
SUZANNE CIANI

Born in 1946 Indiana USA

**Suzanne Ciani is a five-time Grammy award-nominated composer
electronic music pioneer.**

**Suzanne became entranced with the ability
to produce music with a machine, and
devoted herself to the Buchla synthesizers**





LAURIE SPIEGEL

Born in 1945 Chicago USA

**Spiegel fell in love with analog synthesizers at first sight
She starts working at Bell Labs, learning to program giant computers**

**In 1985 she develops « Music Mouse »
a computer program that turns the Mac
itself into a musical instrument**



WALTER/WENDY CARLOS

Born in 1939 Pawtucket USA

**She's an electronic music legend
"Switched-On Bach" is recognized as "Record of the Decade" by Glenn Gould, pianist and Bach scholar**

**Author of the film's soundtrack
Stanley Kubrick's "Clockwork Orange" in 1971, and
"The Shining" in 1980**

Her favorite instrument is the Moog modular synthesizer



SWITCHED-ON BACH

1969

Switched-On Bach sold over one million copies and became the second best-selling classical music album of all time



THANKS TO THEM