

### **COURSE WEBSITE**

www.technosonics.info

LAB SECTIONS MEET THIS WEEK!

#### **ACOUSTICS AND AUDIO**

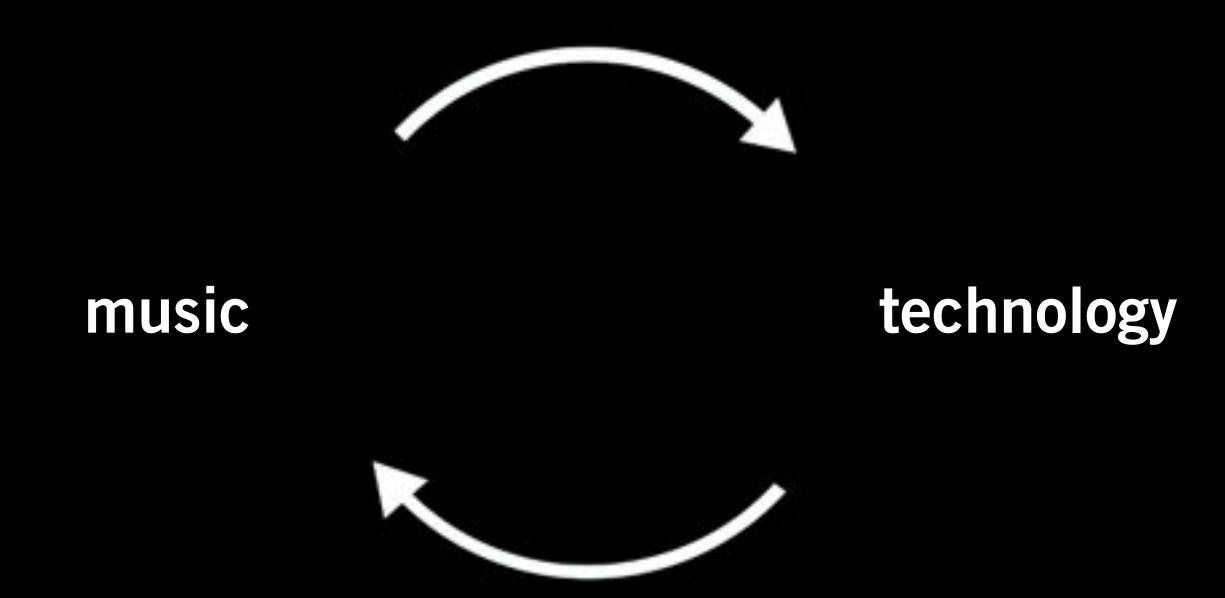
What is sound? How is it recorded? How do we process it?

#### **ELECTRONIC MUSIC HISTORY**

specific technologies ←→ musical ideas

#### **COMPUTER MUSIC PRODUCTION**

techniques for organizing sound using computers





records (and recording)...

musical impact

economic impact

social impact



# **PHONOGRAPH**

**Invented 1877** 







Home Phonograph, 30.00.
Spring Motor 75.00.

ALL GENUINE PHONOGRAPHS bear this signature :

Thomas a Edison

MARK

Catalogue No. 3 free from the

NATIONAL PHONOGRAPH CO., St. James Building, Broadway & 26th St., New York.

Edison records 50 cents cach, \$5.00 per dozen.

same results as the other famous models of the GENUINE EDISON PHONOGRAPH, using the same records and the same reproducer. Simplest, most durable, and

cheapest talking-

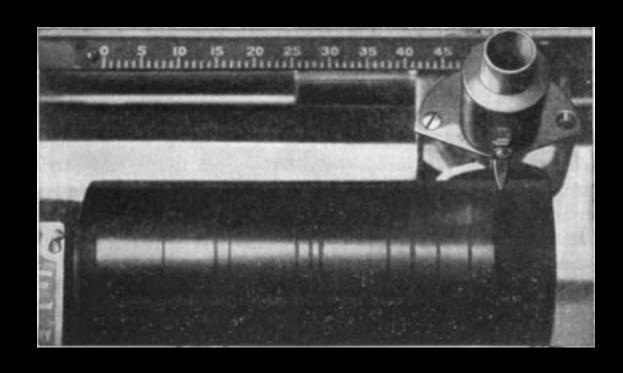
machine.

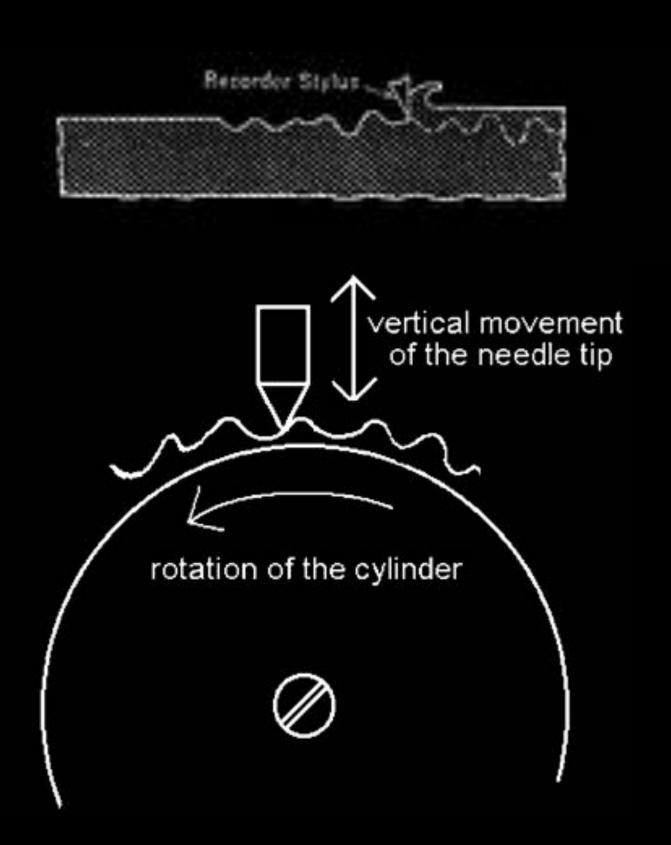
"...I don't want the phonograph sold for amusement purposes, it is not a toy. I want it sold for business purposes only."

Edison

# **Vertical Cuts**

"Hill and Dale"







# GRAMOPHONE

Emile Berliner in 1887

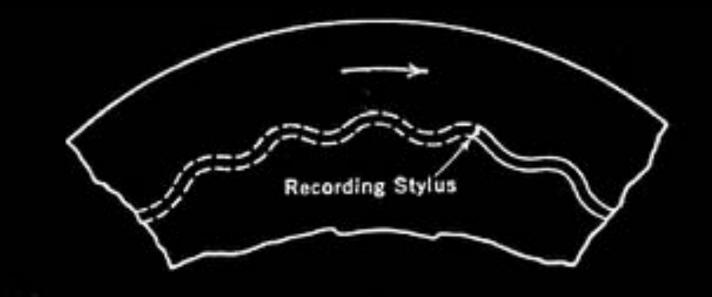


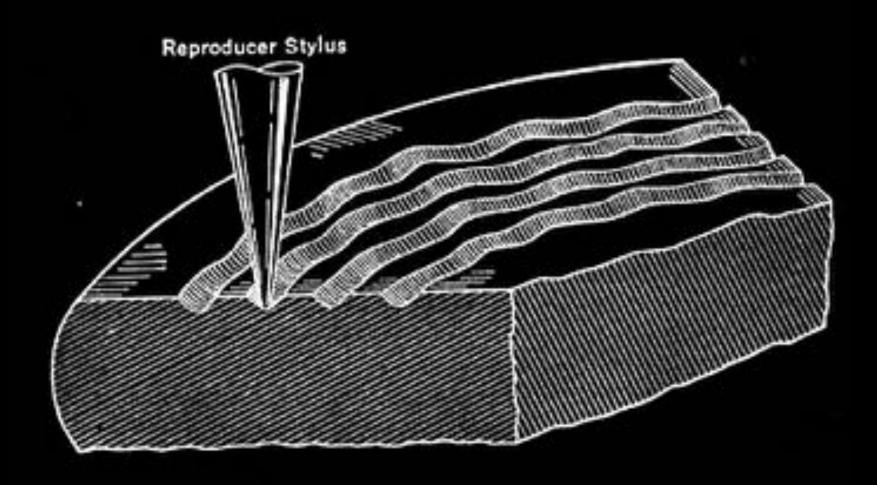


# **Lateral Cuts**

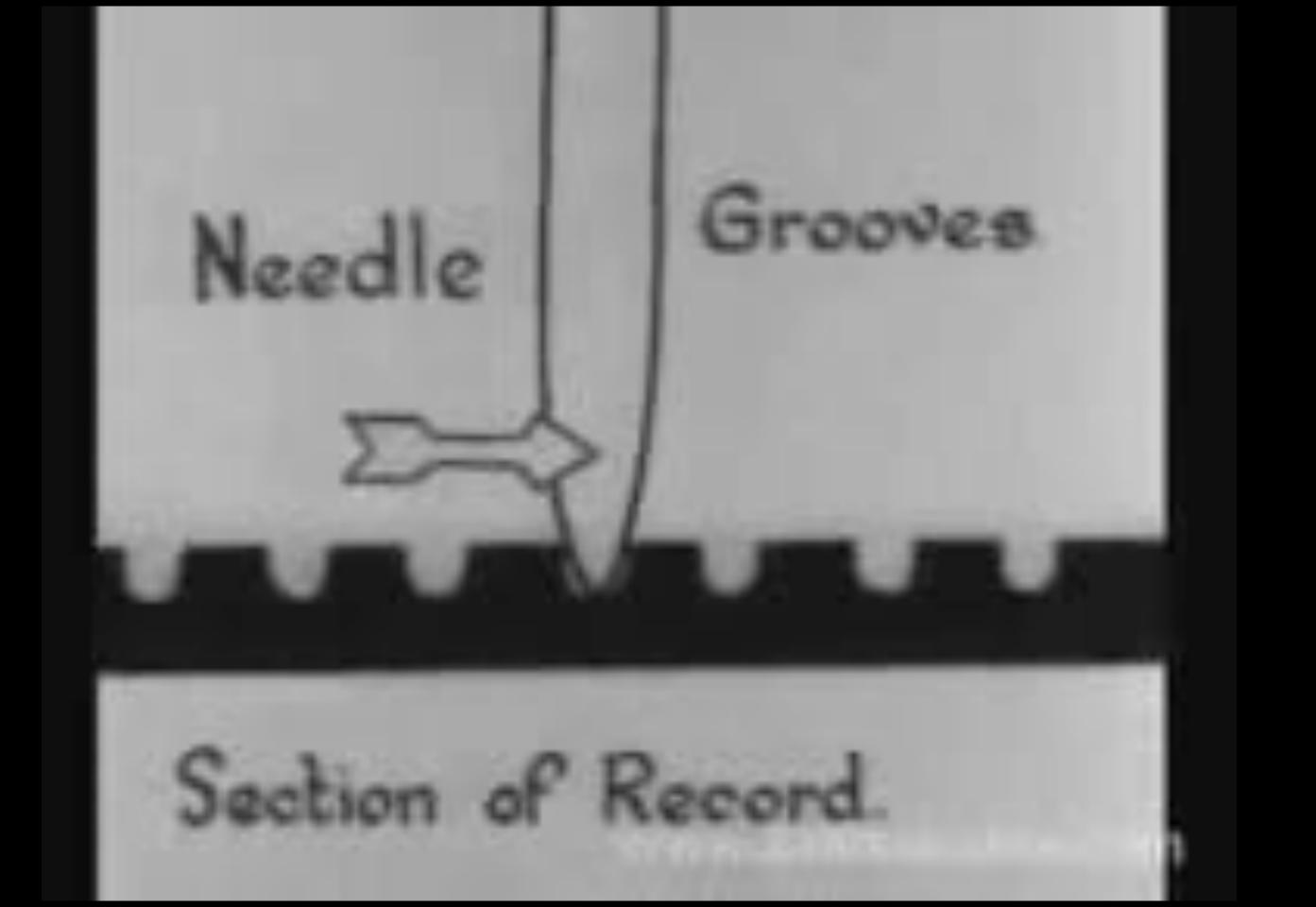
Stylus moves horizontally











# CYLINDER VS. DISC

(PHONOGRAPH VS. GRAMOPHONE)





# RECORD FORMATS

YEARS	TYPE	RECORDING TIME	•••
1888-1929	Cylinder	2-4 minutes	
1900-40s	78 rpm	3-5 min per side	
1948 -	LP (33 1/3 rpm)	15-30 mins per side	album (12")
1949	45 rpm	4-6 per side (EP 7m)	single (7")







## **ELECTRICAL RECORDING**

first electrically recorded discs in 1925



## JOHN CAGE

**1939 Imaginary Landscape #1** - records of audio test tones played on two variable speed turntables, with percussion and piano.



## **DIRECT DRIVE TURNTABLES**

1969: Technics releases first direct drive turntable

# 1970s DISCO DJs



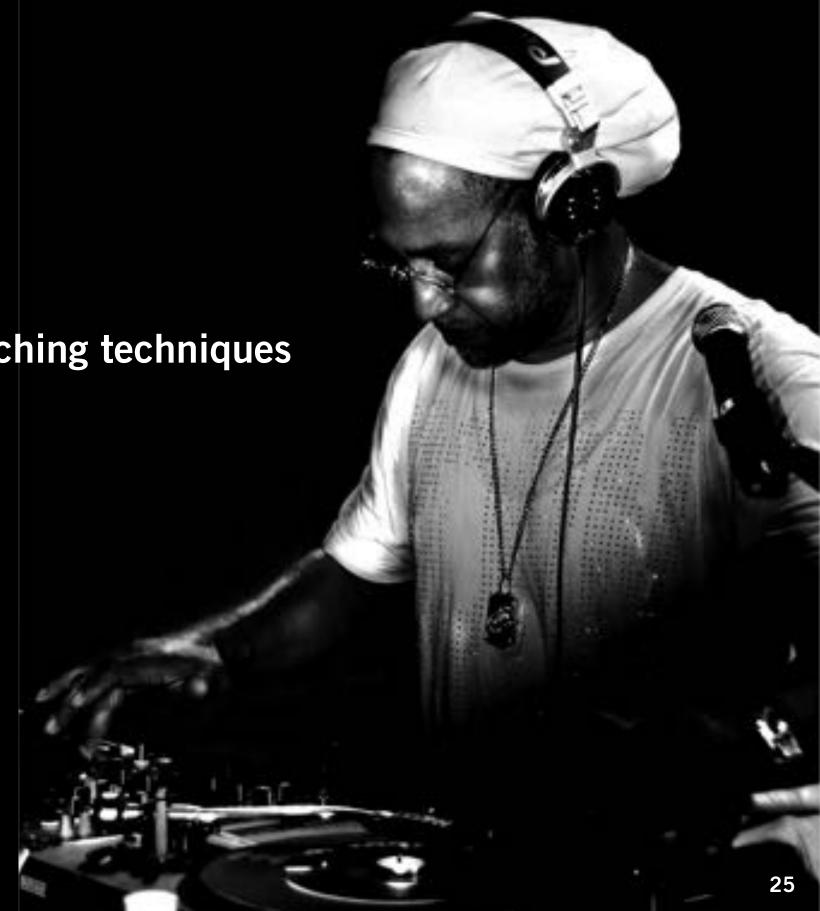


Francis Grasso credited with developing a mixing technique called "slip-cueing"



# DJ KOOL HERC

mid 70s: isolating the "break" and scratching techniques











DIGITAL TURNTABLES

a turntable "controller"

some use 'signal records'

scratching data





## Myriam Bleau / Soft revolvers







**Christian Marclay** 



