

The

PEPE DELUXÉ
presents:

trange science of Sanctum Sanctorum
the wizards of electronics



From left to right: Janne Paasonen, Spectrum, Joni Vesanen & Victorian Machines.

Professor, what's another word for pirate treasure? "Well, I think it's booty... booty... booty... That's what it is!" -*Beastie Boys*

New sounds, ideas and styles in music are often preceded by innovations in instruments and music technology. Just think of garage rock without fuzz boxes or hip-hop without samplers and beat boxes: about as exciting as the sound of one hand

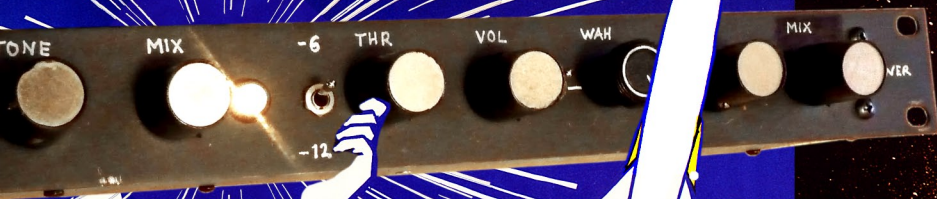
clapping! More often than not those **innovations are based on some earlier technologies and products.** For example the crystal radio "rocks" from the early 20th century first retuned as diodes and then as transistors, extinguishing the fire of tubes that had ruled the world of amplification for several decades. It only took about 30 years for people to realize that for many applications tubes actually *sounded*

better, and the fires were lit again. **The Now Sound depends heavily on unearthing forgotten diamonds.**

Our humble hunt for pirate treasure that began with crate digging has now reached a point where a group of masters help us to not only find and polish rare jewels but to resurrect **studio booty that never existed before.** Let's go back in time, shall we?



1980's - 60's



Two Elektronika B12-011 compressor-filters, modified and racked by Joni Yessanen. Great for those Peruvian '64 surf style drum sounds.

Hi-Fi test engineer Risto Niska's verdict on the Soviet transistor GT404B:

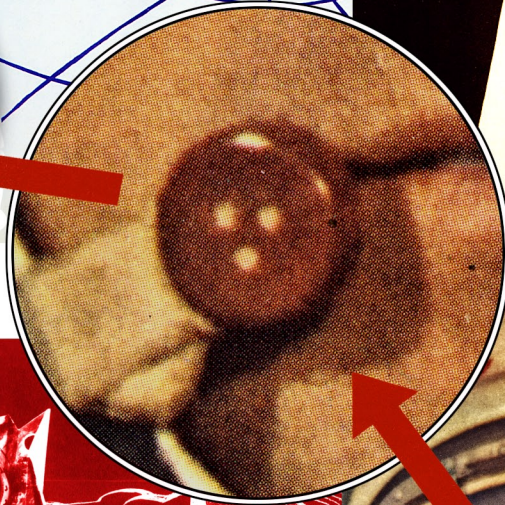
"Not suitable for audio use due to the very low threshold of distortion. In fact it's impossible NOT to get distortion even with the smallest signals. Quite dreadful."



Great for those Peruvian '64 surf style drum sounds.



Pepe double recording channel Transistronika-2, based on the Soviet transistor GT404B. Prototype developed and built by Janne Paasonen. Contains a circuit emulating C-cassette treble saturation.



Electromagnetic differential microphone DEMSH-1A, used by cosmonauts Adrian Nikolajev and Pavel Popovitch and Pepe Deluxé.



50's



1952 HELSINKI OLYMPICS

The 1940 Helsinki Olympics were replaced by a far deadlier competition between the countries of the world, but finally in 1952 the XV Olympic Games, sometimes called "the last real Olympics", were held in Helsinki. The Finnish national public-broadcasting company YLE developed a high quality outdoor production mixer UTV-652 to meet the national and also the international broadcasting needs of the games. We are the lucky owners of the only working UTV-652 in the world, restored and modified for modern studio use by Joni Vesanen.



Photo by Spencer Manio

Garage Rock legend, audio engineer/record producer **Kearney Barton** is the father of the "original Northwest Sound". The **Frantics**, **The Wailers**, **The Kingsmen** and **The Sonics** just to name a few. Despite the many claims his setup was never "lo-fi", quite the contrary! When his studio was finally closed down in 2010, we bought his **Ampex 601-2** preamplifiers.

KEARNEY BARTON



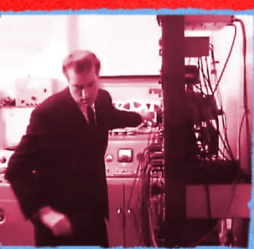
Kearney's control room, containing a custom **Langevin** mixer he used from 1965 to 2010!

- ← The Frantics
- ← Kearney recorded them with a 601-2, his first pair of preamplifiers.

JOE

Polite, explosive, well dressed, volatile, lonely, funny, obsessive, highly strung, violent and relentless. The weirdest of the weird producers, **Joe Meek** made field recordings in London cemeteries, conducted séances predicting the dying day of **Buddy Holly** and wrote and produced the first song by a **British group** to hit #1 in the US.

PEPE DELUXE MEEK ALBUM COMPANION IV / 3



Tragic death of Joe Meek
 RECORD producer and songwriter Joe Meek was found shot dead last Friday at his London studio when he was 32 and his wife, the Hon. Mrs. Jean Meek, was 29.
 Meek, by his relatives, had apparently been worried for some time about his business.
 He came to London from his home near Chichester in 1956 and after a spell as a television engineer, turned to recording and opened a small studio.
 In 1962 he wrote and produced the hit "Telstar" for the Tornados, which topped the Nipper Chart for five weeks and is now estimated to have sold more than five million.
 The following year a member of the Tornados, **Heinz Burt**, left the group to pursue a solo career and in 1963 Meek was shot dead.



Jimmy Page, Tom Jones, Richie Blackmore, David Bowie, Mitch Mitchell, Screaming Lord Sutch and Gene Vincent are just a few of the artists he captured on tape with his unique recording techniques that were unparalleled and continue inspiring creative producers around the world. Meek applied compression and distortion on pretty much everything, and one of his secret weapons (less secret now thanks to us!) was a modified **RCA Orthophonic hi-fi preamplifier** that Meek called a 'cooker', used especially for vocal processing. Our RCA is still a stock model, but we will unleash Mr. Vesanen on the poor thing very soon.



RGB Filtered Light Detectors & lens

Professor A.D. Conrow's original work with optical analysis dates back to the early 1920s. The final experiments that he conducted were associated with an apparatus he called his OSA (Optical Spectrum Analyzer). The genesis of the project was an experiment to transmit audio signals via light waves by breaking apart the components (colors) of a white light source into different frequencies, which could be modulated with audio frequency information. Spectrumizer, an improved version of the original unit converts sound to light and back to sound, allowing optical processing of audio signals. Various filtering feedback and modulation effects can be created with crystals and a "Polarizing Wand".

Designed and built by Victorian Machines

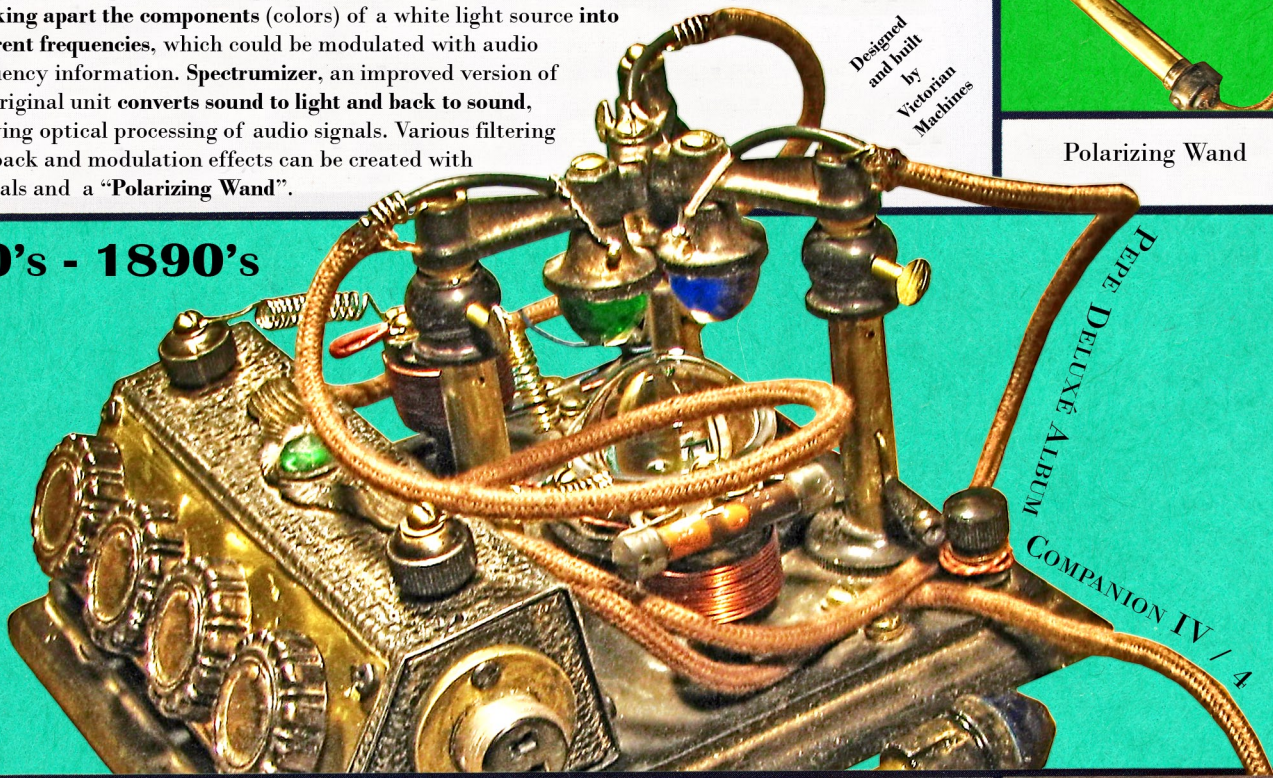


Polarizing Wand



Leaded Crystal Prism

40's - 1890's



PEPE DELUXE ALBUM COMPANION IV / 4



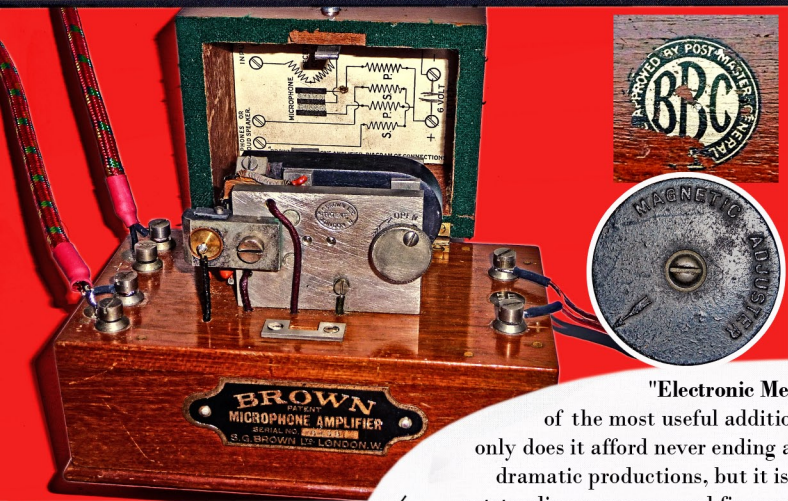
S. G. Brown

The company S. G. Brown Ltd was formed in 1910 at a small workshop in Houndsditch. Their mechanical amplifier (a magnet system driving a carbon microphone) was first manufactured during WWI (1914-18) for the British Army. The use of a unit required an approval from the Postmaster General.

Physicist G. Marconi believed that sounds, once generated, never die. He theorized that with sufficiently sensitive equipment one would be able to retrieve the still resonant residue of historic sounds, including Christ's Sermon on the Mount. Iron pyrite based Fool's Goldfinger, invented by Spectrum, is a simple audio saturator inspired by Marconi's crystal radio receiver.



Guglielmo Marconi, the father of radio.



"Electronic Memory is truly one of the most useful additions to the modern home. Not only does it afford never ending amusement of hearing ones voice or dramatic productions, but it is also invaluable for wire recording outstanding programs and fine music from radio or record discs, speech development, family events, the voices of growing children and home movies." The magnetic amplifier was perfected in WWII Germany and used in the steering systems of the V-2 rockets. The V-2 technology later evolved into Saturn rockets that took man to the moon. This first ever studio mag amp was developed and built by Mr. Vesanen.



Aerjet-General CORPORATION LIQUID ROCKET PLANT - SACRAMENTO

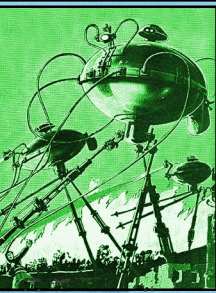
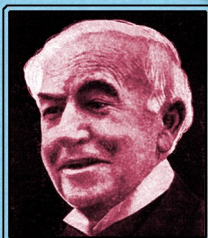


"I have been at work for some time building an apparatus to see if it is possible for personalities which have left this earth to communicate with us."

Edison in *American Magazine*, October, 1920.

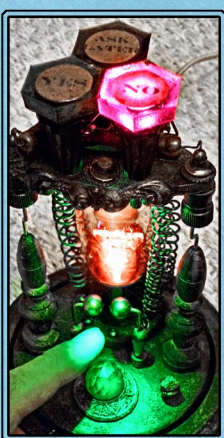


Thomas A. Edison, a holder of 1,093 U.S. patents.

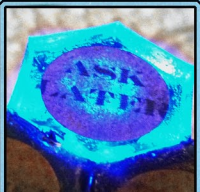


Martian machines from the "War of the Worlds": a design inspiration.

As you sweep your finger over the top of the Phantom Oculus, the Jewel Lights will briefly flash as the electron-storm surges through them.



An unhelpful spirit will give just "Ask Later" responses.



A transistor amplifier driving an electromagnet, used as a transmitter, converting music to magnetic fields.

40's - 1890's cont.



A strong alnico magnet taken from an old speaker.

AETHER MODULATOR



Output amplifying tube EF86.

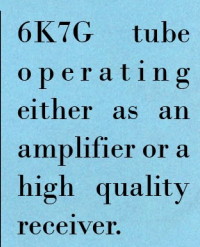


Xenon gas filled electrical switch tube 2D21 acting as a chaotic receiver.

The Aether Modulator system left to right: power supply, permanent magnet, receiver and transmitter.



6K7G tube operating either as an amplifier or a high quality receiver.



PEPE DELUXÉ ALBUM COMPANION IV / 5

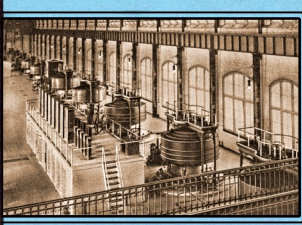
Ghost boxes – machines to talk to the dead

In a 1920 essay, Thomas Edison wrote: "Now what I propose to do is furnish psychic investigators with an apparatus which will give a scientific aspect to their work. The slightest effort which it intercepts will be magnified many times so as to give us whatever form of record we desire for the purpose of investigation."

Joni Vesanen took the blueprints of an Edison inspired Ghost Box developed by Victorian Machines, and turned the original idea into a unique studio device: Aether Modulator. It converts sounds to magnetism and back to sounds, but with very unpredictable results.

The **Psychical Predictor**, probably the strangest of all Pepe tools, is an offshoot of a secret "invisibility cloak" project run by Nikola Tesla and Professor A.D. Conrow at Niagara Falls. Invented by Professor Conrow to communicate with his wife who was killed by X-ray radiation, this apparatus allows the user to contact the "other side" and receive simple "YES", "NO" and "ASK LATER" replies from a "spirit operator". Built by Victorian Machines.

PSYCHICAL PREDICTOR



Tesla/Westinghouse turbines at Niagara Falls.

A.D. Conrow



Electromagnet



Dr. A.D. Conrow's
Bringing the "Other Side" closer than it ever was before.

The ELECTRIC

OLD way

The Quantum Fluctuation Extractor circuit a.k.a. **The Physical Predictor** is an offshoot of a secret "invisibility cloak" project run by Nikolai Tesla and Professor A.D. Conrow at Niagara Falls in the 1920's. This apparatus is the first of its kind, offering modern electric means of receiving precise "YES", "NO" and "ASK LATER" replies from a "spirit operator" to all your significant enquiries.

Producer James Spectrum writes: As a former physics student I know that it's never easy to get immediate and useful feedback from your mentors... especially when they're dead. Like physics, mixing is all about questions and answers: "should the drums be even louder?" **The Physical Predictor** is the only tool in the market that helps one to stop wondering about how old masters would have solved various sonic dilemmas. **"What would Joe Meek do?"**

Well just fire up **The Predictor** and ask the guy! sweep your

To use **The Physical Predictor**, simply state your question, finger over the **Phantom Oculus** (the green gem) and see which one of the jewel lights flicker after a short electron storm has surged through them.

Made in Arkansas & exclusively available from **VICTORIAN MACHINES.**

Appendix I - the Sanctum Sanctorum papers

Brown

С.5. Регулируемое звуковое трансформаторное табло СМ-2 при работе.

Воронько, большое электричеством табло СМ-2 при работе.

параметры звуковой электромагнитной аппаратуры галтели - Изв. в этом роде "молчаливо" - в пределах порядка 100 - 10000 Гц. Вспомогательная, развиваемая устройством на выходе от одного трансформатора звуковой частоты от 10 до 10000 Гц. Вспомогательная частота от 10 до 10000 Гц.

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RADIO-PHONO

EXTERNAL AMPLIFIER



PEPE DELUXÉ ALBUM COMPANION IV / 6

High Fidelity EQUIPMENT

INSTRUCTIONS

PRE-AMPLIFIER

LMI-32215

as it were, for the time being.

Sec. 181. "But enough. Magnetism (not electricity) is the long-dreamed of 'Philosopher's Stone,' Utopian though the idea seems to be.

Sec. 182. "Objection first: - 'Changing any element

RCA

RCA PHOTOPHONE LIMITED
AN ASSOCIATE COMPANY OF RADIO CORPORATION OF AMERICA

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And you can make superb wire recordings direct from your radio - the Webster-Chicago Model 178

Electronic Memory

A.I. 29. 1757

AIR MINISTRY

Report No. EL 1361 February, 1945

ROYAL AIRCRAFT ESTABLISHMENT, FARNBOROUGH

Control of Altimeter frequency on the German low range Rocket.

See us for a demonstration of the WEBSTER-CHICAGO ELECTRONIC MEMORY WIRE RECORDER with RECORD-O-MAGIC CONTROLS

ENRICH YOUR LIFE WITH A

Webster-Chicago

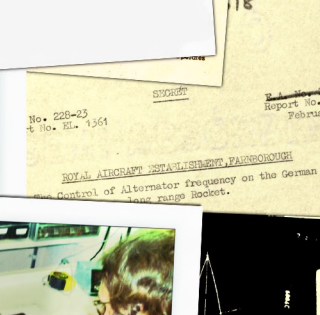
Electronic Memory

PORTABLE WIRE RECORDER with RECORD-O-MAGIC CONTROLS

are equipped to demonstrate the advantages of wire recording to you, and we can order Webster-Chicago wire recorders and accessories and recording wires.

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JANNE PAASONEN

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UNIT SHOWING CONNECTIONS OF AUTO TRANSFORMER.

GAUGE TURNS RESISTANCE

LOW	20 S.W.G.	136	1 OHM.
MTE	24 S.W.G.	136	1 OHM.
ED	40 S.W.G.	14-0B	250 OHMS.
RCR	20 S.W.G.	690	23 OHMS.
TE	26 S.W.G.	690	23 OHMS.

FREQUENCY CONTROL



TECHNICAL DATA

ON THE DEVELOPMENT OF THE

A4 V-2

RFT 43 844

audio recording inc.

Seattle, Washington 98121

... was an auditoriums with ... multiple panels, with ... with Veneklassen on these projects and he did ... Avenue in Seattle, and designed and built this con

Console contains player, tape deck, amplifier with record storage.

High fidelity loudspeaker and cabinet.

RC Pre-amplifier installed as remote control unit.

MR. FIX-IT MAN!

Mr. Fix-It Man! - repairing household appliances and electronics.

SPRIT EXPERIMENT

Edison's Views on Life and Death

the Famous Inventor Regarding His Attempt to Communicate with the Dead

As Reported by Austin C. Lezarboura

CRYSTAL Experiment Handbook

THE "P.W." Experiment Handbook