Listening to the Rivonia Trial: Courts, Archives and Liberation Movements

in France working for the LARHRA, a research divisio Digitizing the Rivonia trial dictabelts of the National center for scientific research. As an with the Archeophone phonograph

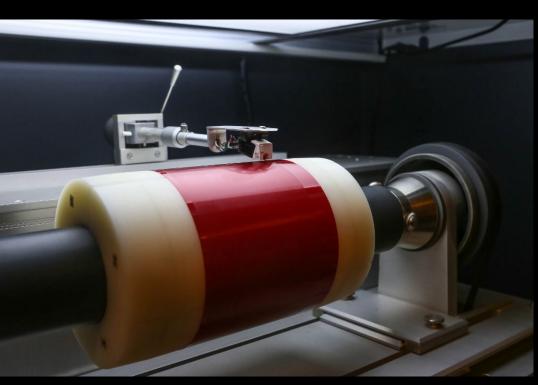


Photo Moïse Fournier (2015)

Henri CHAMOUX ENS Lyon - LARHRA - CNRS

Johannesburg - University of the Witwatersrand 27 September 2018

1 Greetings from Paris!

in France working for the LARHRA, a research division of the National center for scientific research. As an individual I am also the inventor of the «Archéophone» phonograph; initially designed to play the wax cylinders which existed before World War I. I developed the Archeophone in 1998 and it is with this device that I digitized the Rivonia dictabelts alone, in

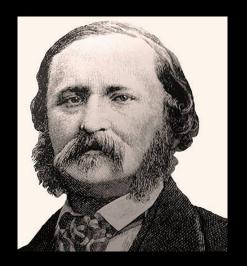
I am Henri Chamoux, an engineer and a civil servant

2015-2016.
As a result I was the first listener of the complete recording. My work on the digitization and editing took place over 1600 hrs on a 15 month period, for a total of about 230 hours of recording.

I will now try to answer a few questions: - why choosing the Dictabelt to record trials? - why choosing the Archeophone 52 years later? I am going to show you more about some odd sound devices and curious audio carriers in history, in order to explain the Dictabelt. I will also tell about my own impressions while listening to the Rivonia Trial.



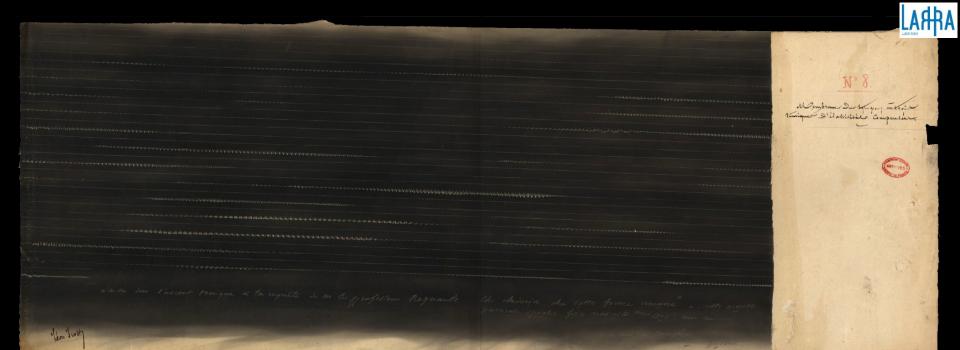
But first I wish to give a historiographical tribute to the first man who actually recorded sound: It is not Thomas Edison but a Frenchman: Édouard-Léon Scott de Martinville, 20 years before Edison. He recorded sound of paper coated with lampblack around 1860.



Édouard-Léon Scott de Martinville (1817-1879).



His first recording device (1857). Drawing preserved at the Académie des Sciences, Paris

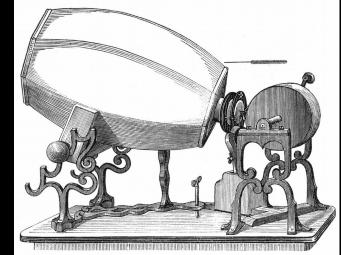


Édouard-Léon Scott de Martinville, Inscription automatique des sons de l'air au moyen d'une oreille artificielle (1861), planche n°8, conservée à l'Académie des Sciences. Image : www.firstsounds.org



Édouard-Léon Scott de Martinville, drawing (1857) Manuscript preserved at the Académie des Sciences Image: www.firstsounds.org

The blacklamp coated paper was put on a flat surface or wrapped cylinder in front of a horn with membrane and stylus. Device is a PHONAUTOGRAPH. Image at top shows theresult : an unwrapped paper which contains a sound recording: a phonautogram.



Scott's phoautograph. Franz Josef Pisko : Die neueren Apparate der Akustik (Vienna, 1865), p. 73.







David Giovannoni, Laurent Scott de Marttinville, and Anton Stoelwinder with a reproduction of the earliest recording device, Paris, Société d'encouragement, 17 September 2016.

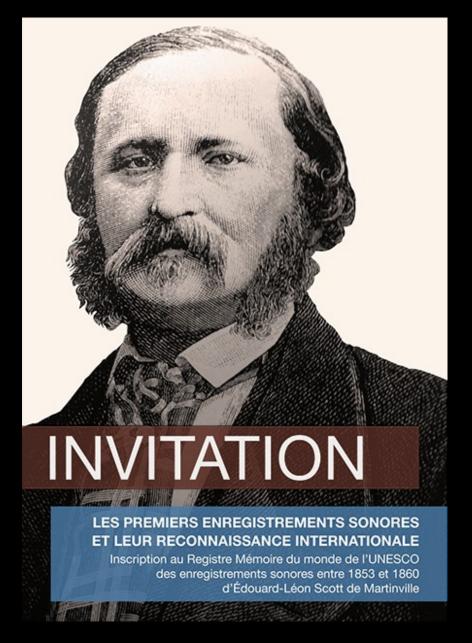


Édouard-Léon Scott de Martinville, détail of phonautogram 8 (1861), preserved at the Académie des Sciences, Paris.

On this sound carrier made of paper, the sound is a visible white track showing waves on the blacklamp surface. Thanks to FIRST SOUNDS, an american non-profit association, the venerable Phonautograms are now scanned and deciphered and the earliest human sound recordings can now be found and heard online.



On October 9, 2015, the United Nations Educational, Scientific and Cultural Organization (UNESCO) inducted Édouard-Léon Scott de Martinville's fonds of phonautograms and manuscripts onto its Memory of the World Register.



Scott did not make a great profit of his invention and actually starved to death. Being considered as humanity's first recordings of its own voice, Scott's phonautograms are now protected by UNESCO since 2015. This is like the documentary heritage of the Rivonia Trial, which was included in UNESCO's Memory of the World Register in 2007.



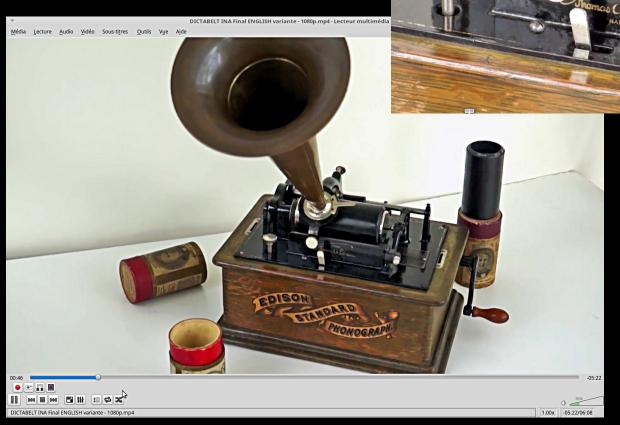


50 million cylinders were made for the sole French market, from 1893 to 1914.

Photos HC



7
Today the fragile wax cylinder must not be played on vintage machines like this Edison phonograph. A single audition on these machines can destroy the venerable cylinders.



Source Henri Chamoux, Patrick Louvet : *The Dictabelt, a recording medium of the 1950's*, vidéo, Amédiart, 2014.

https://www.youtube.com/watch?v=_nRREq3v6vY



8-9

This is why I created the Archeophone phonograph, 20 years ago, in order to play cylinders of all sizes, without any damage.

This device is now used in several places in the world.



1998, au Salon international des techniques muséographiques (SITEM).







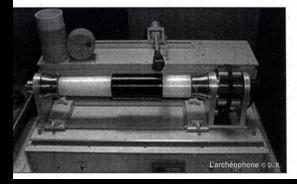
AUDIOVISUEL



À l'écoute des cylindres

Parmi le million de documents sonores qu'il conserve, le département de l'Audiovisuel possède environ 7000 cylindres, le premier support de musique édité.

Grâce à l'acquisition récente d'un appareil de lecture adapté, ils vont enfin livrer leurs secrets.

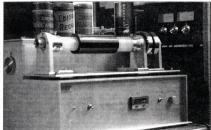


L'archéophone

Le département de l'Audiovisuel a récemment fait l'acquisition d'un lecteur de cylindre, intitulé l'Archéophone, mis au point et fabriqué en petite série par un collectionneur. Cet appareil, sans danger pour les documents, va enfin permettre de lire et d'écouter, souvent pour la première fois, les cylindres précieusement conservés: Leur transfert sur CD-R a déjà pu

The Baily Car Her

Assume the product of the product of



The Academic Affairs Library recently acquired an archeophone, a device that predates records and plays old recordings on wax cylinders. The device is one of only seven archeophones in the world.

Research News

Archeophone revives long-silent recordings

FYI Research

A new instrument will unlock a wealth of nusical, oral history, and oral tradition record-ngs-tucked away in Carolina's Southern olklife and Southern Historical Collections. tecorded on wax cylinders that have becomrittle or cracked over time, the recording ylinder phonographs. Steven Weiss, sound and image librarian

with the Academic Affairs Library, is one of the individuals charged with preserving the cylin-ders. "People know that Carolina has these naterials," Weiss said, "but we just couldn' hance playing the cylinders for researchers of atrons " Until now The library's recen equisition of an Archeophone, designed to afely play wax cylinders, allows the transfer of recordings to more stable media that can be ised by researchers.

History credits Thomas Edison with the nvention, in 1887, of an apparatus that ecorded sound on tinfoil cylinders.



Steven Weiss, sound and image librarian with the Academic Affairs Library, sits behind the library's recent acquisition, an Archeophone. One of only seven worldwide, the lathe-like invention plays archival recordings with little damage to their wax cylinders, enabling transfer to

exciting things for us," Weiss said, "is redis-covering these recordings that haven't been played in over 40 or 50 years." The plan is to make a preservation cop (straight transfer to open-reel tape) and a li (straight dataset to open see lape) and a instening copy (filtered transfer to compact disk) of all wax cylinders in the collections housed in Wilson Library. "We'd eventually like to work with other institutions throughout the ore stable media. A state and the South - institutions that lack gnt from alumnus ben Jones made the purcha possible, along with a digital audio workstation that filters out back-

the capability to play cylinders — to preserve their recordings," Weiss said. "Some cylinders are just collecting dust. The Archeophone would give people an opportunity to tap those

used the Archeophone to transfer the wax-cylinder recordings of African-American spiri-tuals and sermons made by sociologist Guy B.

Johnson during the 1920s. "One of the reall

In the past, the library has turned awar donations of wax cylinders because it could merely preserve them. Now, Weiss and his colleagues can welcome donations of cylinder with a southern focus.

"My primary goal," Weiss said, "is to pro-



SYRACUSE UNIVERSITY

NATIONAL MEDIA RELATIONS

April 13, 2000 Contact: John Harvith [315/443-4152]

MEDIA ADVISORY

Northeast Media Preview of the Archeophone, the first machine designed to reproduce all different sizes and speeds of antique cylinder recordings, takes place 10:30 a.m. Monday, April 17, in Syracuse University Library's Belfer Audio Laboratory and Archive

Archeophone inventor Henri Chamoux travels to SU from France to demonstrate his invention, which will become part of Belfer's collection

Only two other Archeophones are known to be in the U.S., at the University of California, Santa Barbara, and the Library of Congress

Today thirty Archeophone devices play cylinders in many private and public archives, universities or libraries, such as the Library of Congress of the US.



Phonobase: Early recordnings Database

10 000 pieces of wax, celluloid and shellac audible online

Fichier Édition Affichage Historique Marque-pages Qutils Aide (1) www.phonobase.org/simple_search.php?Tout=le temps des cerises&lar Recherche tout champ Recherche avancée Nouvelle recherche Page d'accueil Tout champ: le temps des cerises Y'en a! Retour au tableau des résultats 14 résultats trouvés **■ 1 13 14 ▶** Titre: Le temps des cerises Compositeur(s) et-ou auteur(s) : Renard, Antoine Interprète(s): Maréchal, André Fichier audio: Cliquez pour écouter Photo(s): Support d'enregistrement : 21 cm saphir etched (enregistrement acoustique) Format: Lieu d'enregistrement : Paris, France Marque de fabrique, label : Pathé Numéro de catalogue : 1125 Numéro de matrice : 22802-E État : Exc++ Vitesse (tours/minute): Garrard 401 SME 3012, pointe 2.0ET sur Stanton, Elberg MD12: courbe flat, passe-bas 3k, Matériel employé au transfert : Cedar X declick, decrackle, dehiss Date du transfert : 30-09-2012 Montrer l'autre transfert audio du même document, ou montrer la face associée Permalien: http://www.phonobase.org/8562.html Recherche tout champ Recherche avancée Nouvelle recherche Page d'accueil www.phonobase.d

In addition a lot of

cylinders recorded in

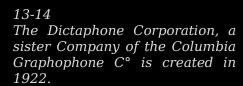


Around the year 1910, the phonograph began to enter the office use and became a business machine.



Blind stenographer from the Overbrook School for the Blind using a dictaphone (Philadelphia, 1911).



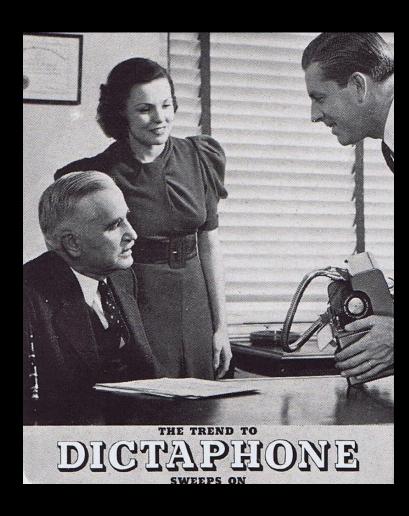


Dictaphone devices are designed for secretaries to transcribe the mail in offices. They develop in the 1930s mostly.

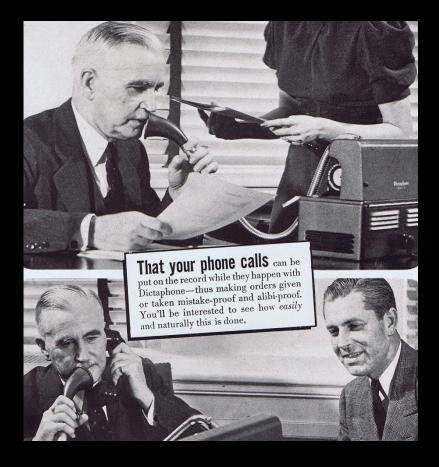


Transcribing, publicité de la Columbia Phonograph Co (1922).





Dictaphone Corporation ads in 1937



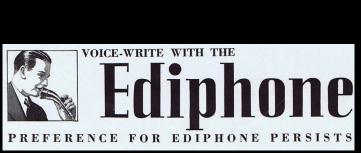




1928



Actress Colleen Moore listening to a message on Ediphone (1928).



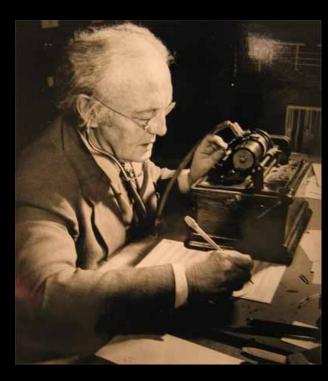
1937



Ediphone Edison Voicewriter (1938)

Edison Company follows suit and creates the competing device under the name Ediphone, but he does not seem to dominate the market.





Marius Barbeau (1883-1969), anthropologist, ethnologue and folklorist from Quebec in 1950, while transcribing a field recording cut on a Dictaphone wax cylinder.

16

In fact these business machines are subject to unexpected applications, especially with ethnologists or musicologists who use dictaphones for their field recordings. Still in the 1950's, they make use of the outdated wax cylinders.



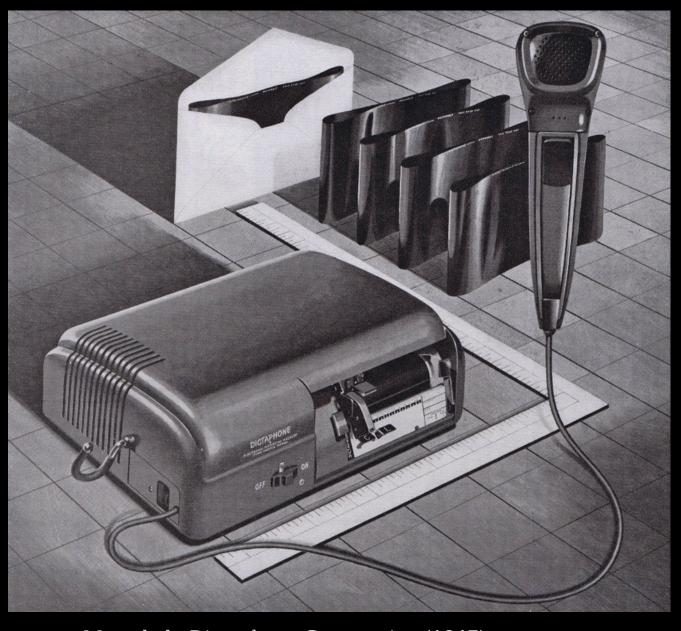
Ciarán Bairéad (1905-1976), Irish folklorist, writer and scholar, while transcribing a field recording made on an Ediphone wax cylinder, in 1957. Photo Leo Corduff, Galway University.



17
Then appeared the dictabelt. By inventing and putting on the US market a flexible cylinder which can be flattened and put in an enveloppe, the Dictaphone Corporation hits a big blow.

The player/recorder device is still called a Dictaphone but the sound carrier is a thin translucent and floppy plastic cylinder instead of a wax cylinder.

First marketed under the name MEMOBELT, it became short after the DICTABELT.



Memobelt, Dictaphone Corporation (1947) A thin translucent and floppy plastic cylinder.

Lenght 89 mm - Thickness 0,13mm - Diameter 95,5mm.



Imagine in these machines a flexible cylinder, on the surface of which the grooves are cut with the recorded sound. This thin closed loop of plastic is stretched by two rollers and rotated while operating.

Dictabelt: these floppy cylinders with special properties were still in use until 1975.





Images from Henri Chamoux and Patrick Louvet: The Dictabelt, a recording medium of the 1950's. Video, 2014. On Youtube:

https://www.youtube.com/watch?v=_nR REq3v6vY

Photos HC

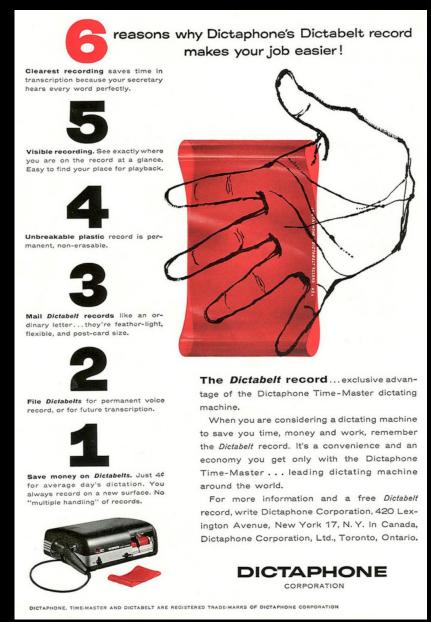


Reason 5: visible recording. **See exactly where you are on the record at a glance.** Easy to find your place for playback.

19-23

The advertising is clearly aimed at the CEO or at the entrepreneur.

But the most striking among the assets of the device according to these ads is the notion of visibility of what is recorded...



6 reasons why Dictaphone's Dictabelt record makes your job easier, advertising (1955).



[...] The recording surface is visible while you record: no risk of any accidental destruction of your dictation [...]



Dictaphone, marque déposée, advertising in French language (1959).

LAHRA

[...] They record visibly, so you can't lose your place[...] so dictation can't be lost or erased.



with the Dictabelt record, you "write" as easily as you talk



JUST think out loud. The Dictaphone TIME-MASTER does the rest. No other dictating machine is so easy to use.

Every word is recorded instantly and unmistalkably on Dictaphone's exclusive DICTABELT record. DICTABELTS slip on and off in a second. They record visibly, so you can't lose your place . . . permanently, so dictation can't be lost or erased. Your secretary hears every word so clearly that she works lots faster and more accurately.

DICTABELTS are postcard size, flexible and unbreakable. They can be mailed or filed as easily as ordinary letters. And they're the

most economical dictating medium of all.

Think of the time you'll save every day. When work comes up—or an idea strikes—you record it instantly. No waiting for your secretary to take shorthand, no desk-top pile-up.

Why not discover how to get all the best out of yourself? Try the new Distaphone TIME-MASTER and DICTABELT record on your own desk this week. No obligation, Just call your local Dictaphone office or write Dictaphone, Dept. W, 420 Lexington Avenue, New York 17, N. Y. Ask about our rental plan, our

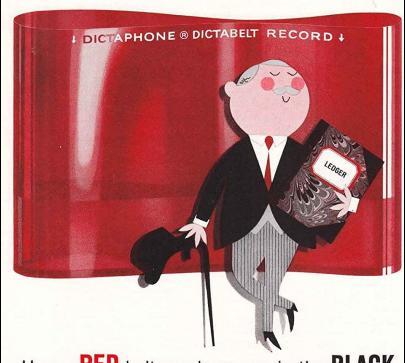
DICTAPHONECORPORATION

Service available the world around

In Carado, write Dictophone Corporation, Ltd., 204 Egilaton Ave. East, Toronto . . . in England, Dictophone Company, Ltd., 17.19 Stratford Place, London W.1. Dictophone, Time-Master and Dictobell are registered trade-marks of Dictophone Corporation.

Publicité Dictaphone Corporation, *Saturday Evening Post*, 1957.





[...] Permanence : can't be erased accidentally. Visibility : you see your recording take place, easily find your place.

How a **RED** belt can keep you in the **BLACK**



One Dictaphone TIME-MASTER with Dictabelt record can add \$1,250 a year to your profits.

Only the plastic Dictabelt can offer you such confidence as you dictate. Fidelity—your secretary can't mistake it. Permanence—can't be erased accidentally. Visibility—you see your recording take place, easily find your place.

The new TIME-MASTER dictating ma-



chine with Dictabelt can gain an hour a day in communications—an executive's most important job. For a \$10,000-a-year man, this is \$1,250 gained yearly.

Together, the Dictabelt and TIME-MASTER make the finest system for business communications in the world . . . and the best *value* you can buy.

No time wasted waiting for your secretary . . . pick up the microphone and talk your work away. All necessary controls are on the mike. Phone any of Dictaphone's 200 local offices for a free demonstration at your desk.

THE NEW, ALL-TRANSISTOR Dictaphone TIME-MASTER

Dictophone, Time-Moster and Dictobelt are registered trademarks of Dictophone Corp., 730 Third Ave., N. Y. 17, N. Y.; 204 Eglinton Ave. E., Toronto, Canada; 17-19 Stratford Pl., London W.1, England.

How a red belt can keep you in the black, (USA), 1959.





The « sound you can see », ad for the Dictabelt dictaphone, *Fortune*, October 1961.



Previous post:

Next post:

<u>w Violence in Danville: Preservation of a Civil Rights LegacyFrom Russia with Love: How a portrait of a Russian Ambassador came to be hanging in the Virginia State Capitol</u>

SOUTHSIDE BURNING!: REFORMATTED RECORDINGS PRESERVE HISTORIC TESTIMONY

5 February 2013

Editor's Note: On Sunday 4 February 2013, the Richmond Times-Dispatch ran a front page article on the 1963 Danville civil rights demonstrations. The Library of Virginia has case files for more than 250 individuals who were charged with various offenses during these protests. This blog post originally appeared in the December 2003 issue of The Delimiter, an inhouse Library newsletter. This entry has been slightly edited.

The fortieth anniversary of the 1963 Danville ovid rights demonstrations passed earlier this year [2003] with merely a brief mention in the press. In the summer of 1963, violence erupted in Danville, Virginia, as the Danville establishment led by Police Chief Eugene G. McCain struggled to keep Jim Crow order during a series of civil rights demonstrations led by local and national black leaders. Of the 45 demonstrators arrested in front of the city jail on 10 June, nearly all required medical attention at the hospital for injuries that some defendants testified were the result of being pistol-whipped or struck with nightsticks. As evidenced in the Civil Rights Demonstrations Cases legal files on microfilm and audio compact discs at the Library of Virginia, sporadic demonstrations continued until late August 1963 despite the violence.

In the late summer of 1999, the Danville Circuit Clerk of Court transferred the legal files of the Civil Rights Demonstration Cases to the Library of Virginia for processing due to security concerns and preservation issues. Jay Gaidmore, the archivist charged with organizing and describing the collection, wrote in his Spring 2001 Delimiter article that the collection spanned the years 1963–1973 and included "bills of particulars, bond records, correspondence, court dockets, court orders, Dictabelts, evidence, judgments, petitions, photographs, receipts, subpoenas, and transcripts of testimony that document the legal aspects of the civil rights demonstrations from the Danville Corporation Court to the Virginia Supreme Court of Appeals." After processing had been completed, a grant secured from the Virginia Circuit Court Records Preservation Program allowed for the subsequent microfilming of these court files. By early spring 2001, the microfilm collection had opened to patrons and students of the Civil Rights Movement.



While this new visual civil rights resource now was open to researchers, archival efforts to preserve the audio contents on the collection's 130 Dictabelts were only in the initial stages. During the Danville Corporation Court civil rights trials, a Dictaphone machine operated constantly (even in closed judge's chambers) and the resulting Dictabelts contained a full account of the court proceedings heard from 13 December 1966 to 6 April 1967. Prevalent in courtrooms and insurance offices in the 1960s, the Dictabelt was the acetate-based medium for the once-popular Dictaphone machine, a groove and stylus-type recording device introduced in 1947 but virtually non-extant and rarely used by the late 1970s. After inserting a Dictabelt into the machine, a pair of mandrels rotated the belt-shaped medium while a lead screw guided a stylus across the belt. The stylus, driven by the amplified signal from a microphone, cut a groove in the belt and thus stored a signal that could then be played back on the same machine. While this method produced fairly high-quality recordings of the court proceedings, a Dictaphone machine in good working condition is a particularly rare find today. The Library and the Clerk's office recognized that if action were not

taken to convert these antiquated sound files, the audio testimony might be lost forever. A grant from the <u>Virginia Circuit Court</u>

Records Preservation Program enabled the Library to convert the dictabelts to compact discs. Completed in July 2003, the compact

Dictabelt used in Virginia courts. Southside burning: reformatted recordings preserve historic testimony – www.virginiamemory.com Website of the Archives at the Library of Virginia.

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This feature is the probable reason why some Courts of Justice, begining with the state of Virginia, USA used the dictabelt for trial recordings: no editing possible, no erasure, not cheat.

This is on the exact opposite of what can occur with magnetic recording tapes, which were already of common use with tape recorders everywhere during the same period.





So, what is the common ground between crime novelist Agatha Christie, President Kennedy, and the systematic recording of lawsuits? But it's the Dictabelt of course! Kennedy used to record himself his telephone conversations with this device, while Agatha Christie used the dictabelt as a memo to build her stories.

Agatha Christie recording on Dictabelt (1955). This is the way she produced orally one of her last novels. Photo by Hubert de Segonzac, October 1956.





Solid state Dictabelt mandrel for the Archeophone phonograph (2007)

26 - Just like with the wax cylinders which should not be played on vintage phonographs, one must never replay Dictabelts on Dictaphones, as they can damage them. This is why I developped a special mandrel to play Dictabelts on the Archéophone phonograph, as if they were wax cylinders. My first attempt was done in order to play Agatha Christie's voice, which is in a private collection in Paris.

Photo HC

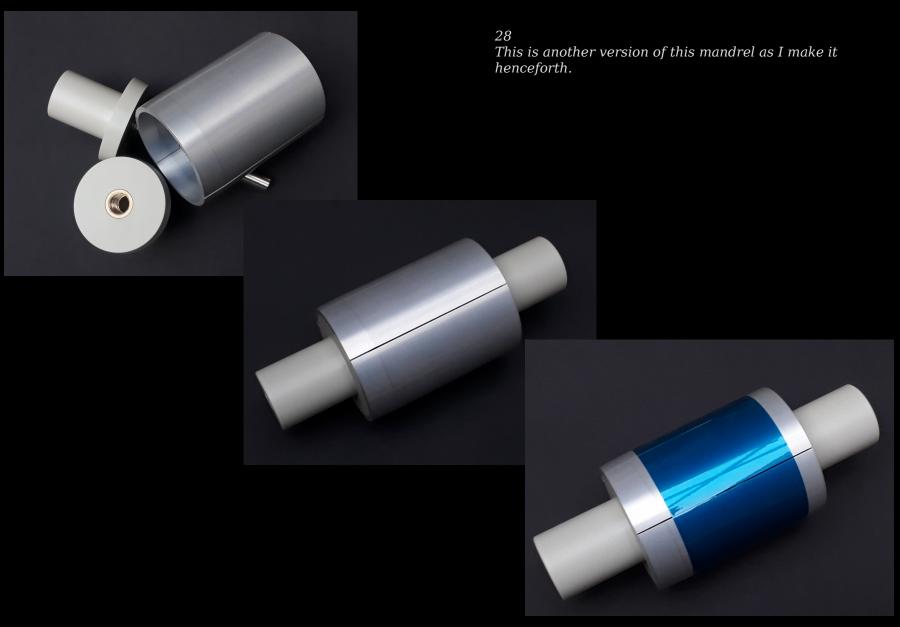




Dictabelt mandrel with a variable diameter for the Archeophone phonograph (2012)

Photo HC

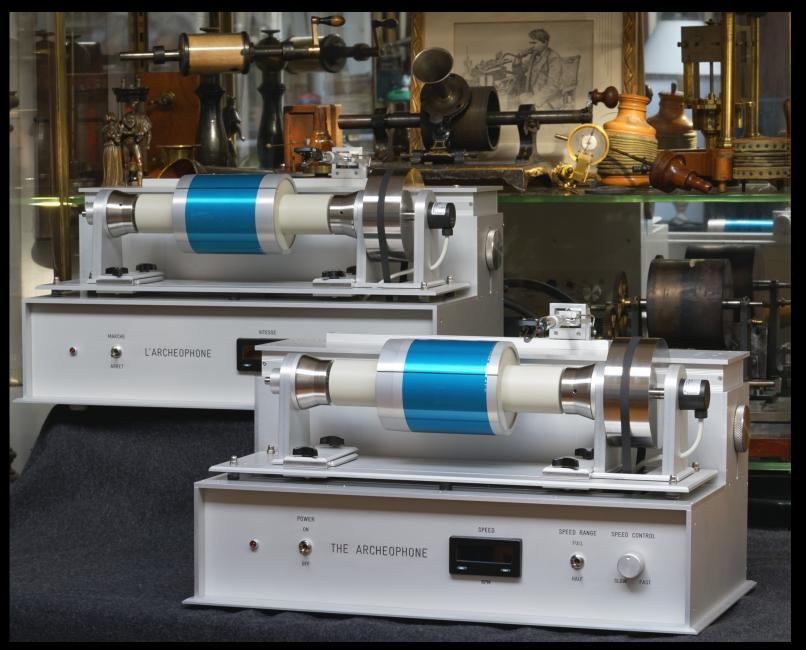




Photos HC

Dictabelt mandrel with a variable diameter for the Archeophone phonograph (2015)





The two Archeophone phonographs delivered to NARSSA in the fall 2017



30
Bent on such mandrels, a brittle Dictabelt with creases, foldings or other accidents in the recorded grooves, is much easily playable with no damage to it.







31

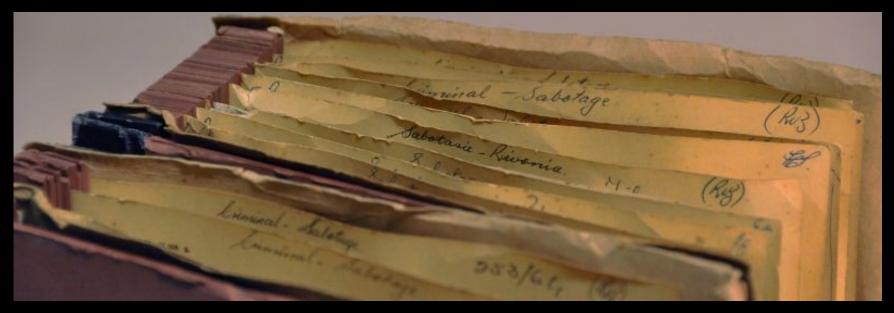
The 230 recorded hours of the Rivonia Trial are recorded on 591 dictabelts stored together in six archival albums.

When the National Archives and Records Service of South Africa adressed to France, through the INA, for the digitization of these sounds, I was able to propose the best technical solution, on behalf of the modest laboratory I work for, the LARHRA. As a rsult I did the job as a subcontractor of INA and became the lucky first auditor of this recording.

Vuyo Jack, Elisabeth Barbier, Pretoria, 10 October 2014.





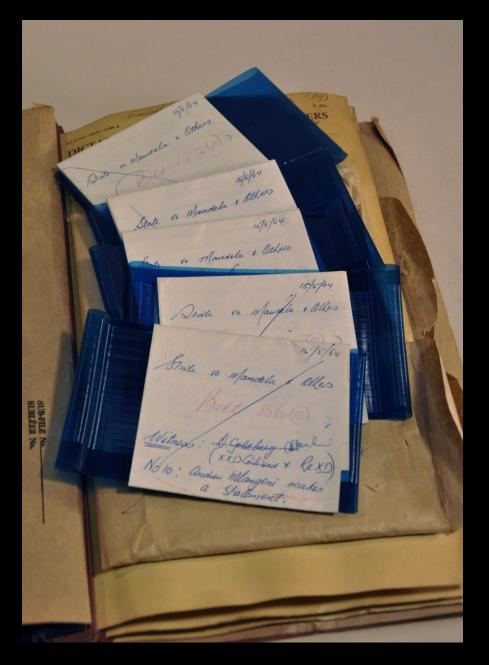


Two of the six albums containing the dictabelt floppy cylinders of the Rivonia Trial (détail).

32
But why the Dictabelt in South Africa? The US and France abstained from voting on the UN resolution against the Rivonia trial. But the United States had provided all the necessary material, American equipment, for the trial recordings in South Africa. When listening to the Rivonia trial, one can hear the word **Communism**, resonate several hundred times which can account for the origin of this audio equipment.

Photo HC



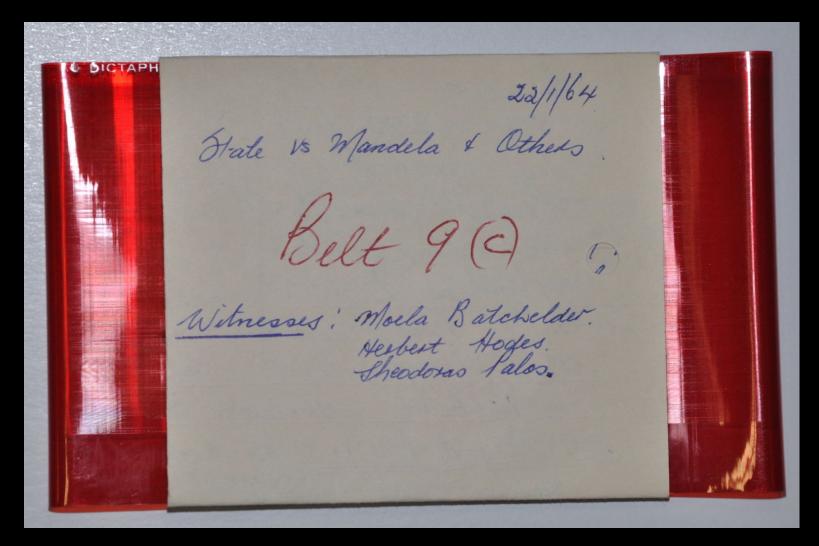


One album page and its Dictabelt floppy cylinders of the Rivonia Trial.

33
This shows how Dictabelts are stored at NARSSA, with their written synopsis on corresponding paper leaflets all put together in enveloppes pasted on album pages.

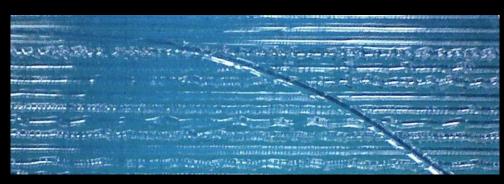
Photo HC





One of the 591 Dictabelt floppy cylinders of the Rivonia Trial with its datasheet.





Rivonia Trial, close-up view of the parallel turns of the groove – with a big scratch here – from a cylinder of April 20, 1964.

35

I wish to show this visual comparison between a phonautogram of Scott and a close-up view of the sound cut of Mandela's voice: to illustrate here the birth and the disparition of a technique, 100 years apart. Interestingly, the Rivonia trial is the very last historical recording of importance worldwide that is actually cut into a palpable material, at a time when any original sound recording to be preserved or broadcasted was done on magnetic media. Despite the presence of numerous crackling noises, which are reminiscent of vinyl records, the audition of the unrestored digitized Rivonia Trial collection is already loud and clear and quite satisfactory. Nevertheless, the audio restoration made at INA is a valuable improvement.

Édouard-Léon Scott de Martinville, détail of phonautogram #8 (1861), preserved at the Académie des Sciences, Paris.





Le Monde Afrique

Politique ≡

COMPTE RENDU

La France offre à l'Afrique du Sud les archives numérisées du procès Mandela

Jacob Zuma s'est vu remettre par l'Elysée les bandes-son restaurées du procès Rivonia par lequel le militant anti-apartheid avait été condamné en 1964 au bagne à vie.

Par Amaury Hauchard LE MONDE | Le 11.07.2016 à 19h00



A l'occasion de la visite officielle du président sud-africain Jacob Zuma à Paris, François Hollande lui a remis, lundi 11 juillet, à midi, les archives sonores du procès Rivonia par lequel Nelson Mandela a été condamné au bagne à vie le 12 juin 1964. Que sont ces archives ? Comment ont-elles été restaurées par la France ? Que symbolise ce geste diplomatique officiel ?

L'homme qui a numérisé le procès de Mandela

OCIÉTÉS # NUMÉRIQUE

Ingénierie. Cinquante-deux ans après le procès de Nelson Mandela, les 230 heures de l'audience ont enfin pu être numérisées et remises à l'Afrique du Sud grâce à l'Archéophone, une invention d'Henri Chamoux.

PAR PHILIPPE NESSMANN

Voilà un demisiècle, le leader antiparthet Nelson Mandela était condamné à la prison à perpétuité par la Cour suprême de Pretoria. Les audiences du procès n'avaient encore jamais été intégralement numérisées pour des raisons de fragilité dus support originel. C'est désormais chose faits, grâce à l'ingéginosist d'Henri Chamoux, ingénieur d'études à l'ENS de Lyon affecté au Larhral. « Toute la difficulté, explique celui-ci. L'enait au support d'enregistrement: le Dictabelt. Conçu en 1947 par la société Dictaphone, il





Remise des enregistrements sonores numérisés du procès de Rivonia à l'Afrique du Sud

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Le 17 mars 2016, l'Institut national de l'audiovisuel (ins) a officiellement remis à la République d'Abrique du Sud les derniers emegistrements sonners numérises du procès de Neison Mandela et des leaders de l'ANC (« Rivonia Trist »). A cette occasion, un accord de pratige de completences a det signe acce le Ministre sud-àdricion des Arts de la Culture.



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France has been instrumental in bringing back to life the Rivonia dictabelts. And beyond the communication exercises that described the event in publications, it is necessary to emphasize the most human aspect of this particular recording:



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... they were eight companions who spent a quarter of a century in jail before emerging as winner of apartheid.

Here together are the three survivors during the official delivery of the digitized unrestored recordings.

As the first listener of the whole set, I lived every minute of the Rivonia Trial or at least what was recorded of it: straining my ears on these dialogues in English, checking at each instant the correct progression of the groove, was a unique experience. It first sounded like an ordinary trial with the deep and quiet tone of judge Quartus de Wet (1899-1980) who rarely speaks, contrasting with the voice of attorney-general Percy Yutar (1911-2002) who is constantly heard with a specific tone crescendo at the very end of each of his questions. Yet this audition was mostly a highly emotional one, with the discovery of the voices of numerous second rank witnesses, some of them being absolutely terrified.

Ahmed Kathrada, Andrew Mlangeni, Denis Goldberg, Pretoria, 17 March 2016.



La France en Afrique du Sud et au Lesotho

Ambassade de France à Pretoria

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Le 17 mars 2016, l'Institut national de l'audiovisuel (lina) a officiellement remis à la République d'Afrique du Sud les derniers enregistrements sonores numérisés du procès de Nelson Mandela et des leaders de l'ANC (« Rivonia Trial »). A cette occasion, un accord de partage de compétences a été signé avec le Ministre sud-atricain des Arts et de la Culture.





On the other hand while listening to the patient answers and statements of the accused, one can actually feel how strongly they transformed this trial into a tribune for equality against apartheid. For instance one should mention the numerous occurrences of such sentences as: "I am not prepared to disclose any of my friends", pronounced by Ahmed Kathrada or by Walter Sisulu or others, just to prove again, with the added force of their own voices, the strength and value of these men of exception.

Here is Ahmed Kathrada listenning to the unrestored recording of himself more than 52 years later in a very beautiful film documentary.

Mr Kathrada, vous nous avez dit être né à Schweizer Renecke, Ahmed Kathrada Accusé n°5 26 ans de prison

During an interview, Ahmed Kathrada (1929-2017) is listening to his own voice during the Rivonia Trial, 52 years after, in 2016...

Image taken from the documentary film by Nicolas Champeaux and Gilles Porte: *The State Against Mandela and the Others* (1h46min, presented in Cannes in May 2018, released in October 2018).

Excerpts online: https://www.youtube.com/watch?v=MHWA_lkADrc

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I insisted on some early historical and technical aspects, which may appear as being of a secondary interest. But if I designed a device to play Dictabelts it was only thanks to my prior knowledge and thanks to my contributions made on early sound carriers. And I believe this had to be visible here.

As milestones in human history Scott's phonautograms and the Rivonia dictabelts are now available online for everyone to listen to and saved for posterity, in the era of the digital humanities.

Yet it will remain very important to document and provide detailed descriptions about what were the original sound carriers, how they did look like, how they worked and how they were digitized. Because it is probable that tomorrow's researchers will not have access to the original documents. Therefore they will have no idea of the how and why.

I also wanted to show the distance between the industrial project of a maker – a business machine for office use - and the actual use of its products – to record trial recordings.

Now let's watch a very short fragment of this documentary film / Let's listen to a fragment of unrestored Ahmed Kathrada's voice.

To download these slides:

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http://www.archeophone.org/dictabelt