

TALKING MACHINES

Talking Machines Education Resource

Theme: Innovation & Imports

Film Title- Heplov Sheepskin Roller (Museum of the Riverina- Wagga Wagga)

About the Clip:

Synopsis:

This machine harvested the burr which contained the seed for subterranean clover. In Australia in the 1920s, it was found that addition of clover to soil, plus the fertiliser, superphosphate, led to marked increases in pasture production and helped to deal with weed infestation. Sheepskin covered rollers or drums picked up the subterranean clover burrs from scarified ground. A geared and revolving brush then swept the burrs into a hopper. This one was made by Hepburn & Lovett of Wagga Wagga, in 1952.

Duration: 6.53 mins

Study Module:

Curriculum Focus: History – NSW Syllabus for the Australian Curriculum

Year: 9 (Stage 5)

Strand: Historical knowledge and understanding; Historical inquiry and skills

Theme:

- Depth Study 1: Making a Better World? – The Industrial Revolution (1750 – 1914)
- Depth Study 2: Australia and Asia – Making a Nation

Key Concepts:

- Evidence; continuity and change; cause and effect; perspectives; significance

Curriculum Applicability:

- The technological innovations that led to the Industrial Revolution (**ACDSEH017**)
- The nature and significance of the Industrial Revolution and how it affected living and working conditions, including within Australia (**ACOKFH016**)
- The emergence and nature of significant economic, social and political ideas in the period, including nationalism (**ACOKFH019**)
- The experiences of men, women and children during the Industrial Revolution, and their changing way of life (**ACDSEH081**)
- The short and long-term impacts of the Industrial Revolution, including global changes in landscapes, transport and communication (**ACDSEH082**)
- Living and working conditions in Australia around the turn of the twentieth century (that is 1900) (**ACDSEH090**)

TALKING MACHINES

Historical Skills:

- **Chronology, terms and concepts**
 - Use chronological sequencing to demonstrate the relationship between events and developments in different periods and places **(ACHHS164)**
- **Analysis and use of sources**
 - Identify the origin, purpose and context of primary and secondary sources **(ACHHS169)**
 - Evaluate the reliability and usefulness of primary and secondary sources **(ACHHS171)**
- **Perspectives and interpretations**
 - Identify and analyse the perspectives of people from the past **(ACHHS172)**
 - Identify and analyse different historical interpretations (including their own) **(ACHHS173)**
- **Explanation and communication**
 - Develop texts, particularly descriptions and discussions that use evidence from a range of sources that are referenced **(ACHHS174)**

General capabilities:

- **Critical and Creative Thinking**
 - Developing questions about aspects of the past that require historical argument
 - Identify and clarify information and ideas
 - Organise and process information
- **Personal and Social Capability – Social Awareness:**
 - Appreciate diverse perspectives

Context/ Background Information:

Sheepskin rollers, also called sub clover harvesters, clover gatherers and roller harvesters, harvested the burr which contained the seed for subterranean clover. In Australia in the 1920s it was found that addition of the introduced pasture species, subterranean clover, and the fertiliser, superphosphate, to soil led to marked increases in pasture production. Sheepskin-covered rollers or drums picked up the subterranean clover burrs from scarified ground. A geared and revolving brush then swept the burrs into a hopper. The sheepskin roller clover harvester was invented and patented in Australia by P.W. Forest of Boyup Brook, Western Australia, in the early 1930s. This one was made Hepburn & Lovett, of Wagga Wagga, in 1952.

Talking Machines: reviving Riverina rural technology collections with video testimonies, captures the histories and stories of generations of Australian men and women who farmed the Riverina, through the rusted metal frames and once sharp blades of dormant farm machinery they used.

The project creates a series of thematic trails across the Riverina and key objects have been selected to support the development of these themes which in turn speak to Australia's role

TALKING MACHINES

in the industrial revolution- this is the focus of an educational resource. Australia's role in the industrial revolution and the impact of the revolution is little documented in Australian education resources- these films provide an access point for teachers on examples of the impact of the revolution upon rural Australian society. It should be noted that the full impact in Australian society occurred after the curriculum notes on the European based experience- thus date relating to the manufacture and use of some equipment may not align with those published in the curriculum.

Discussion Pointers:

- How important is a local manufacturer to the community? What made manufacturers grow, and how has their role in the local community and/or their contribution to the industry changed (they aren't there any more)?
- What made/makes local inventors so creative in their response to the challenges in their local environment?
- How did they overcome/manage the problem and move forward?
- What significant point in time does this represent? And how has our response to the challenge changed over time?

Suggested Classroom Activities:

- Make a site visit to the museum; talk to the curator.
- Behind the scenes with local industry/industry representative.
- Be a rural reporter – role play report on their invention, what does it do?

More Information, Contact Details & Arrangements for Visits

The Museum of the Riverina is open 10am to 4pm from Tuesday to Saturday and 10am to 2pm on Sundays (closed Mondays).

The Museum has two sites

1. The Botanic Gardens Site is located on Lord Baden Powell Drive, Willans Hill in Wagga Wagga. Phone: (02) 6926 9650.
2. The Historic Council Chambers Site located at the corner of Baylis and Morrow Sts, Wagga Wagga. Phone: (02) 6926 9655.

Further information on visits and education programs can be obtained by emailing the museum at- museum@wagga.nsw.gov.au or check out the website- <http://www.museumriverina.com.au/>.