Digitization of the First World War Canadian Expeditionary Force (CEF) files

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Library and Archives Canada





Who we are

Library and Archives Canada Digitization Services Division

- ☐ Gatineau Preservation Centre
- ☐ Division in operation since 1999
- ☐ Grown from a team of 2 to over 80
- ☐ 2016-2017 over 12 million images were digitized



Gatineau Preservation Centre located in Gatineau, Québec

Canadian Expeditionary Forces (CEF) Digitization Project

☐ CEF Collection is comprised of approximately 640,000 Personnel files

☐ Goal is to digitize and make them all available online by November 2018

☐ To facilitate the effort, we repurposed our high-speed auto-fed BancTec

scanners.



Year One

- ☐ Pre-digitization project / Fastener and adhesive removal
- ☐ Outsource digitization trial
- ☐ Testing to establish in-house workflow and productivity to bring the project back in-house
- □ Operationalizing Testing / Concept (3 months) Network / Efficiencies Hiring
 - 6 months of production during year one



The BancTec Conservation concerns

- ☐ Conservators had many concerns about using the BancTec for 100 year old files
- ☐ Worked with the company to mitigate these issues







The BancTec – Conservation concerns (cont'd)

☐ The paper jogger was a major concern to conservators that its extended use would damage the material





Step 1: Sorting

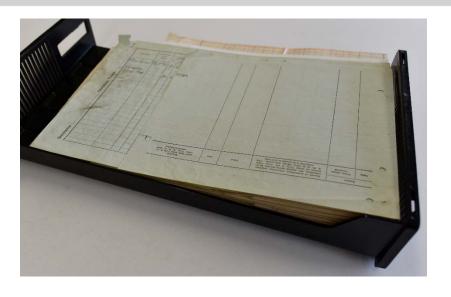
First and most important step is sorting the files to go on the various equipment. We use barcodes to track the material.

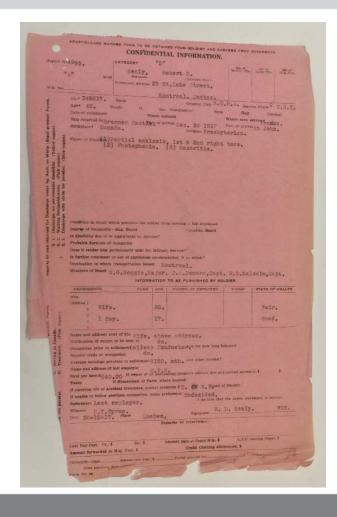


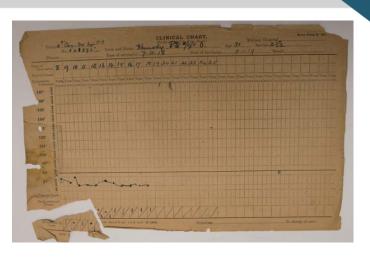




Step 1: Sorting (Cont'd)







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Step 2: Scanning – BancTec

We can scan up to 30,000 images a day with the autofeed function

Two people scan up to 6,000 images a day with the hand-fed process



Step 2: Other scanners



Fujitsu *fi-7700*

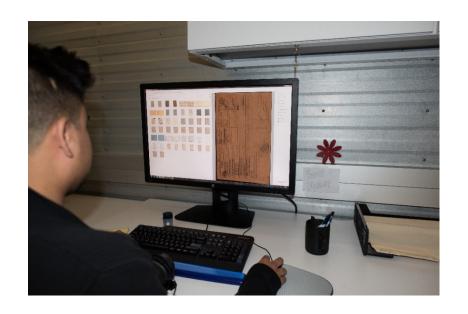


Contex - IQ Quattro 2490

- ☐ Fujitsu scanners were initially used to digitize the more delicate material, which we now do on the BancTec (hand-fed process)
- ☐ It continues to be used in overflow situations
- ☐ It also is used to digitize material that is in very damaged condition.
- □ Contex scanners are mostly used to scan oversized documents.

Step 3: Quality Control

□ Technicians assigned to perform Quality Control functions look out for: cropping, colour, density, page orientation, page order contents and file naming.
If any issues are found the technician is required to rescan the document.



CEF Project: Technical Infrastructure

All the documents are scanned at 300 PPI uncompressed TIFF 24 bit sRGB colour

PDF files are saved using Adobe 1.7 spec w/ JPEG2000 compression.

BancTec scanners and the PDF compression workstations have a 10 Gigabit fibre connection

Archiving is performed by an IBM tape library using Comm Vault software to LTO6 tapes

Successes & Challenges

Successes

First archival institution using the BancTec scanners for archival digitization
National and international institutions looking for you guidance
2016-2017 7.2 millions images - 200000 over our projected goal
Currenlty outputting 600,000+ images a month
Creating the BancTec hand feed technique which has doubled are fragile document scanning capabilities
As of today, Over 80% completed with approx. 8M images remaining to digitize within the next year

Challenges

Sorting techniques as it is one of the most important step for the project it drives our production Properly qualified people for sorting Attention to detail is a key asset, finding the right employees can be challenging IT infrastructure... storage... network speed...

Celebrity soldiers

☐ Lieutenant Lester Bowles Pearson 14th Prime Minister of Canada (1963-1968)



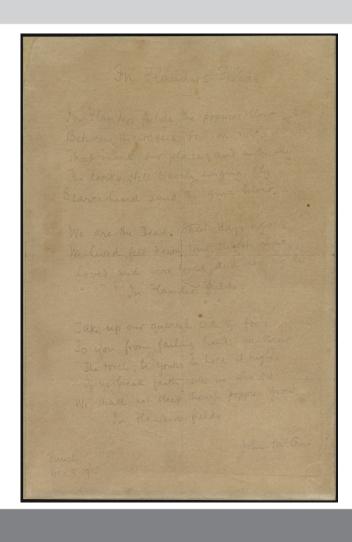


☐ Lieutenant William Avery Bishop (AKA Billy Bishop)
Flying Ace
Multiple award recipient



□ Lieutenant Colonel John McCrae
Canadian poet, physician, author, artist and soldier during First World War
Author of the *In Flanders Field* poem

In Flanders Field



In Flanders fields the poppies grow Between the crosses, row on row, That mark our place; and in the sky The larks, still bravely singing, fly Scarce heard amid the guns below.

We are the Dead. Short days ago
We lived, felt dawn, saw sunset glow,
Loved and were loved, and now we lie
In Flanders fields.

Take up our quarrel with the foe:
To you from failing hands we throw
The torch; be yours to hold it high.
If ye break faith with us who die
We shall not sleep, though poppies grow
In Flanders fields.