



Robot Cataloger

**Using Macro Express to transfer records
from MS Access to Voyager**

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July 24, 2006
NEVUG



Part II -- Details






The macro opened up the target database table, tabbed through the fields, copied the contents onto the clipboard, and saved the data into variables.

It then switched to the Voyager cataloging client, opened a new bib record template, and pasted the data from the variables into the appropriate fields.

After saving the record, it copied the record number, created holdings and item records, and returned to Access, where it pasted in the record number and the date and time.



Because there were several formats involved, (print, CD-ROM, online), the macro used logic to determine how to enter the report.

✓ If Variable %T41% > ""
A Text Type: <F9>h<SPACE>[electronic resource]
✓ End If
✓ If Variable %T46% contains "CD"
A Text Type: <F9>h<SPACE>[computer file]
✓ End If

I also did some authority control on faculty names ...



✓ If Variable %T30% contains "Ljungquist, Kent P."

Text Type: <HOME><SHIFTD><END><SHIFTU><DELETE><F9>aLjungquist, Kent,<F9>d1948-<SPACE><F9>u--<SPAC...

End If

✓ If Variable %T30% contains "Mallick, Rajib B."

Text Type: <HOME><SHIFTD><END><SHIFTU><DELETE><F9>aMallick, Rajib Basu,<F9>d1966-<SPACE><F9>u--<S...

End If

✓ If Variable %T30% contains "O'Connor, John T."

Text Type: <HOME><SHIFTD><END><SHIFTU><DELETE><F9>aO'Connor, John T.,<F9>d1954-<SPACE><F9>u--<SPA...

End If

✓ If Variable %T30% contains "Orr, John A"

Text Type: <HOME><SHIFTD><END><SHIFTU><DELETE><F9>aOrr, John A.,<F9>d1947-<SPACE><F9>u--<SPACE>%T

End If

✓ If Variable %T30% contains "Paar, Christof"

Text Type: <HOME><SHIFTD><END><SHIFTU><DELETE><F9>aPaar, Christof,<F9>d1966-<SPACE><F9>u--<SPACE>%T31%<SPACE>--<F9>e Faculty advisor

End If

✓ If Variable %T30% contains "Pahlavan, Kaveh"

Text Type: <HOME><SHIFTD><END><SHIFTU><DELETE><F9>aPahlavan, Kaveh,<F9>d1966-<SPACE><F9>u--<SPACE>%T31%<SPACE>--<F9>e Faculty advisor

End If

Text Type

Keystrokes

<HOME><SHIFTD><END><SHIFTU><DELETE><F9>aMallick, Rajib Basu,<F9>d1966-<SPACE><F9>u--<SPACE>%T31%<SPACE>--<F9>e Faculty advisor

Alt	Arrow Right	Control Up	Home	Shift	Win
Alt Down	Arrow Up	Delete	Insert	Shift Down	Win Down
Alt Up	Backspace	End	Num Enter	Shift Up	Win Up
Arrow Down	Control	Enter	Page Down	Space	
Arrow Left	Control Down	ESC	Page Up	Tab	

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12

Variables Insert Misc Keys Insert Symbols

☒ Type Text Normally ☐ Use Clipboard to Paste Text ☐ Send Text to Control

OK Cancel Help

Mallick, Rajib Basu, 1966- -- CE -- Faculty advisor



It looks too complicated!
(Well, it is complicated, but so is cataloging)



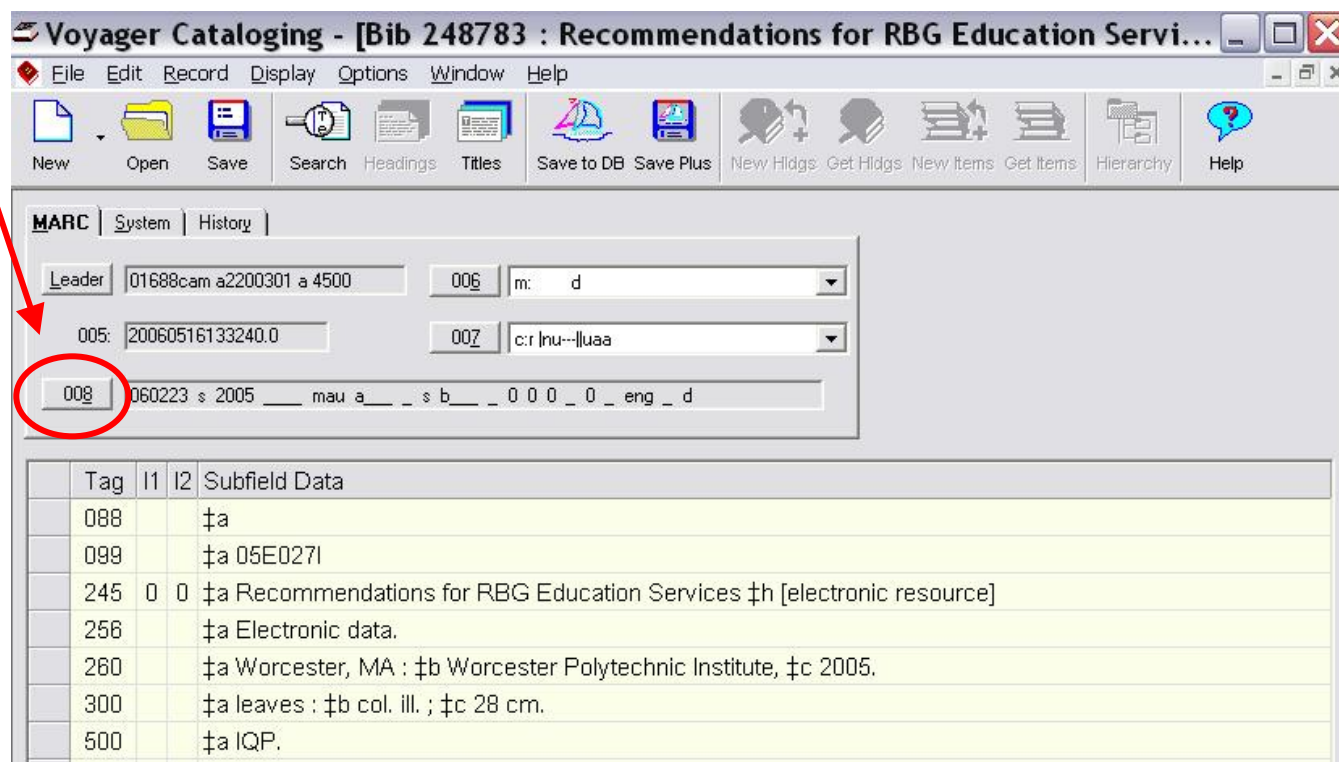
Taken in small pieces, it isn't so difficult.

Creating a macro is easier if you think in terms of keyboard shortcuts instead of mouse and menu. You just need to write down each keystroke as you work through a task.

For example ...



... in Voyager Cataloging, to open the fixed field 008, you can either click on the 008 button ...



Voyager Cataloging - [Bib 248783 : Recommendations for RBG Education Servi...

File Edit Record Display Options Window Help

New Open Save Search Headings Titles Save to DB Save Plus New Hldgs Get Hldgs New Items Get Items Hierarchy Help

MARC | System | History |

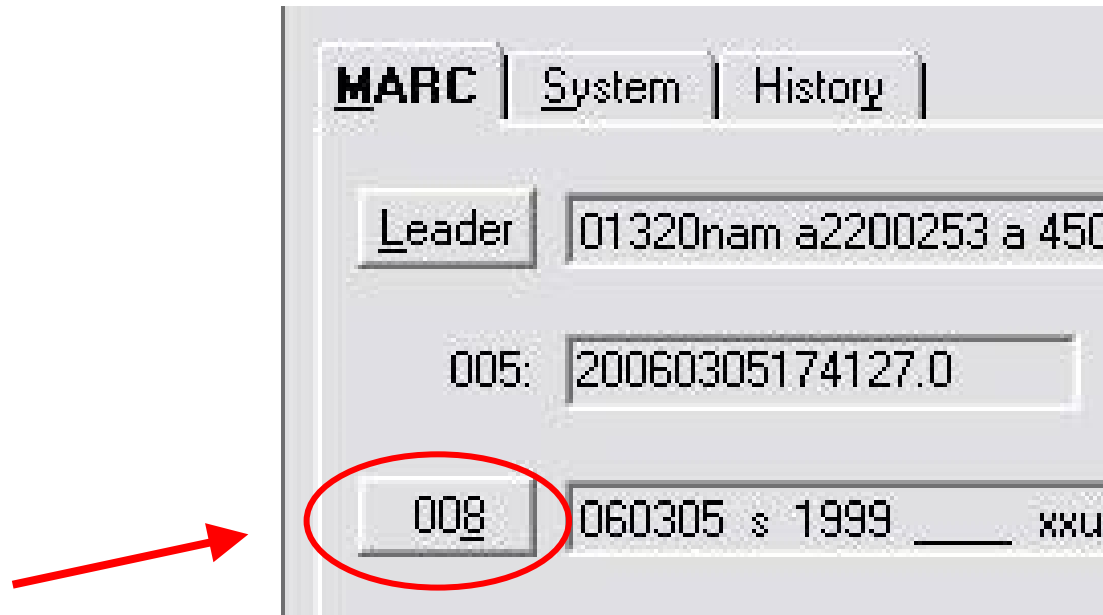
Leader 01688cam a2200301 a 4500 006 m: d

005: 20060516133240.0 007 c:r |nu---||uaa

008 060223 s 2005 ___ mau a ___ s b ___ 0 0 0 _ 0 _ eng _ d

Tag	11	12	Subfield Data
088			‡a
099			‡a 05E027I
245	0	0	‡a Recommendations for RBG Education Services ‡h [electronic resource]
256			‡a Electronic data.
260			‡a Worcester, MA : ‡b Worcester Polytechnic Institute, ‡c 2005.
300			‡a leaves : ‡b col. ill. ; ‡c 28 cm.
500			‡a IQP.

... or using the keyboard, type: <alt> 8
Notice how the 8 is underlined ...



A screenshot of a MARC record interface. At the top, there are three tabs: **MARC**, **System**, and **History**. Below the tabs, there are several input fields. The first field is labeled **Leader** and contains the text "01320nam a2200253 a 450". Below this is a field labeled "005:" containing "20060305174127.0". The bottom field is labeled "008" and contains "060305 s 1999 ____ xxu". A red arrow points from the left towards the "008" label, which is also circled in red.

... the underlining is the clue that a shortcut is available



008 - General Description (Book)

Publication Status	s : Single known date/probable date
Date 1 (yyyy)	_____
Date 2 (yyyy)	_____
Place of Publication	xxu : United States
Illustrations 1	a : Illustrations
Illustrations 2	_ : No illustrations
Illustrations 3	_ : No illustrations
Illustrations 4	_ : No illustrations
Audience	_ : Unknown or not specified
Form of Item	_ : None of the following
Contents 1	b : Bibliographies
Contents 2	_ : No specified nature of contents
Contents 3	_ : No specified nature of contents
Contents 4	_ : No specified nature of contents
Govt. Publication	_ : Not a government publication
Conf. Publication	0 : Not a conference publication
Festschrift	0 : Not a festschrift
Index	0 : No index

OK Cancel

The field is open for editing



We need to fill in the date, place of publication, and code the format as electronic.

008 - General Description (Book)

Publication Status	s : Single known date/probable date
Date 1 (yyyy)	_____
Date 2 (yyyy)	_____
Place of Publication	xxu : United States
Illustrations 1	a : Illustrations
Illustrations 2	_: No illustrations
Illustrations 3	_: No illustrations
Illustrations 4	_: No illustrations
Audience	_: Unknown or unspecified
Form of Item	_: None of the following
Contents 1	b : Bibliographies
Contents 2	_: unspecified nature of contents
Contents 3	_: Not a government publication
Contents 4	_: Not a government publication
Govt. Publication	_: Not a government publication
Conf. Publication	0 : Not a conference publication
Festschrift	0 : Not a festschrift

OK Cancel

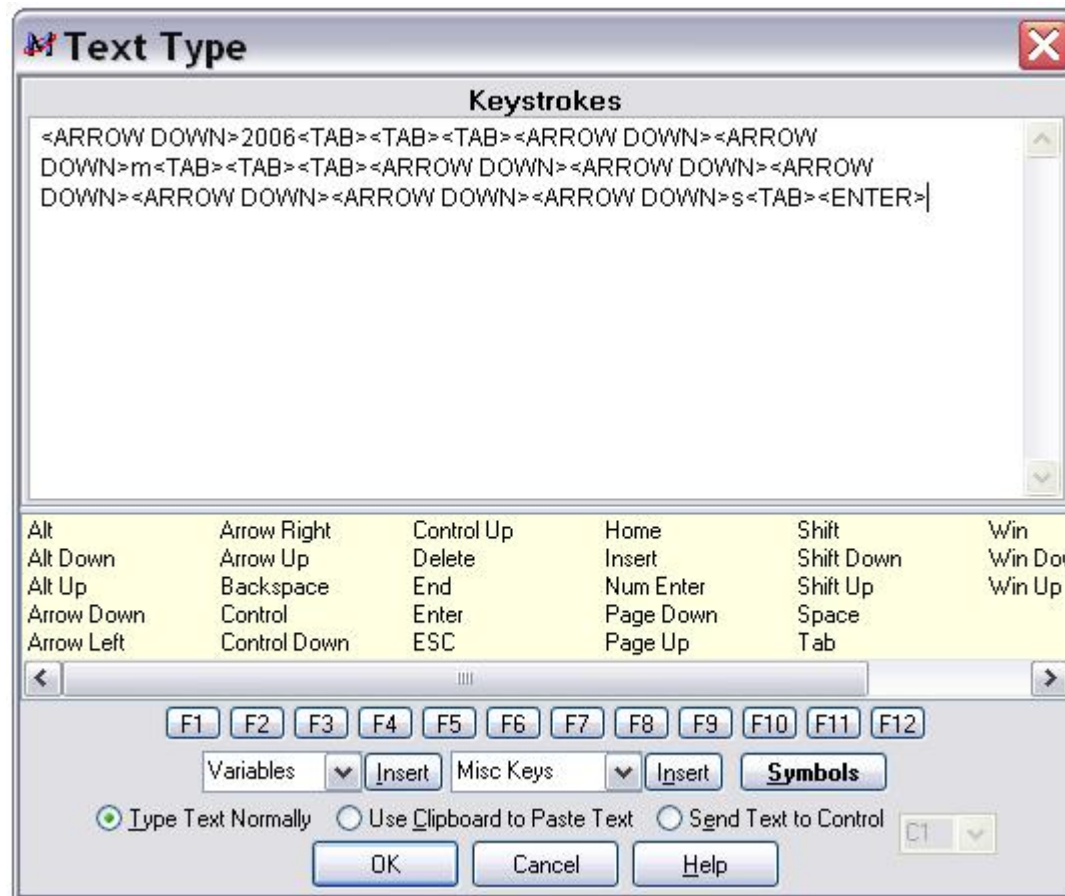


To do this, we need to:

- arrow down once → ↓
- type in the date → (date)
- hit <tab> 3 times → <tab> x 3
- arrow down twice → ↓ x 2
- type 'm' → m
- <tab> 3 times → <tab> x 3
- arrow down 6 times → ↓ x 6
- type 's' → s
- <tab> once → <tab>
- and hit <enter> → <enter>

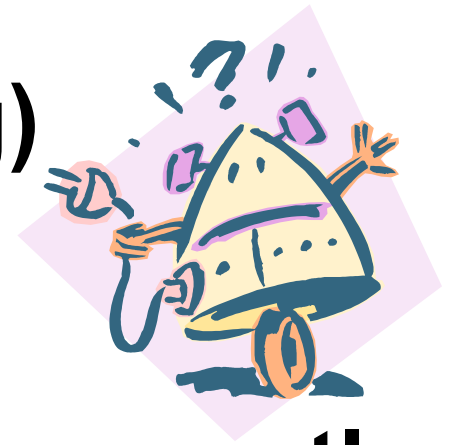
(my shorthand for that sequence)

In Macro Express, it looks like:



Some potential problems:

- **Errors in scripting:
(Typos, Logic, Timing)**
- **Computer hiccups**
- **Bad data**
- **Cataloging options set incorrectly**



The robot can't do it all ...

Title from Banner:	
Worcester Latino Roundtable	Video Life Stories
Sunscreen Pigments in Cryptobiotic Crusts	
Pansat: A Powder Metal Nanosatellite	
An Engineered Receptor Activates Erad	
Clonning	and Expression of DEN and WN Viral Gene
Eval	of Child Yield in the Borough of Brent
Communicatiions	at the International Secretariat

Actual title:	
Worcester Latino Roundtable video life stories	
The effects of growing conditions on the production of sunscreen pigments by Nostoc, Scytonema and Microcoleus, three major components of cryptobiotic crusts	
PANSAT -- powder metal bus structure design and fabrication for a nanosatellite	
An engineered receptor coupled with a small molecule system activates a stress signaling pathway critical to the ERAD response	
Recombinant cloning and expression of viral proteins from West Nile and Dengue viruses	
Evaluation of child yield within recently completed housing developments in the Borough of Brent	
"Decoding the International Secretariat -- an assessment of communication and culture"	



garbage in ...



garbage out!

The Next Phase: Clean-up



Macros can help here, too.

Macros	
Nickname	Activation ▲
Print with CD and diskette 300 field	Ctrl+F2
Print 300 field	Ctrl+F3
CD 300 field	Ctrl+F4
Expand 260 field	Ctrl+Shift+2
update fixed field to mau	Ctrl+Shift+3
IQP Topic 440	Ctrl+Shift+4
Add 500 note	Ctrl+Shift+5
Add 088 field	Ctrl+Shift+8
Title different, add new 245	Ctrl+Shift+B
Title on CD-ROM	Ctrl+Shift+C
Project submission date:	Ctrl+Shift+D
Record checked note	Ctrl+Shift+E
Faculty advisor:	Ctrl+Shift+F
IQP Topic:	Ctrl+Shift+I
Keywords from project report.	Ctrl+Shift+J
Keyword(s):	Ctrl+Shift+K
test macro	Ctrl+Shift+N
close after item relink	Ctrl+Shift+O
Project center:	Ctrl+Shift+P
relink item	Ctrl+Shift+Q
Sponsor:	Ctrl+Shift+S
Title different (E-Project), add new 245	Ctrl+Shift+T
Delete	F6

MARC System History

Leader 01870nam a2200337 a 4500 006 m: d

005 20060530112037.0 007 c:1 unu--uuuaa

008 060530 s 2005 xxu am -- bs 0 0 0 0 _ eng _ d

Before ...

Tag	11	12	Subfield Data
088			\$a
099			\$a 06E0261*
245	0 0		\$a Exploring potential opportunities for the Fire Equipment Maintenance program \$h [electronic resource]
246	3		\$1 Title from database: \$a Exploring Potential Opportunities for FEM
256			\$a Electronic data.
260			\$a Worcester, MA : \$b Worcester Polytechnic Institute, \$c 2005.
260			\$c 2005.
300			\$a leaves : \$b col. ill. ; \$c 28 cm.
500			\$a IQP.
500			\$a
500			\$a Faculty advisor: Vaz, Richard F.
504			\$a Includes bibliographical references (leaves
516			\$a Text (pdf).
520			\$a Abstract: This project presents opportunities for expansion of the Country Fire Authority's (CFA) Fire Equipment Maintenance (FEM) program in Victoria, Australia. These opportunities were identified through interviews of CFA personnel and are intended to enhance community safety and, where possible, increase the revenue of brigades participating in the FEM program. The opportunities were researched and organized into areas of products and services, training, emergency management, and post-incident analysis. These suggestions were then presented to the CFA via a computer program and a detailed report.
538			\$a Mode of access: World Wide Web via Internet.
700	1		\$a Schott, Christopher M. \$u -- ME -- \$e Student author
700	1		\$a Ochs, Michael T. \$u -- ME -- \$e Student author
700	1		\$a Ellison, Andrew D \$u -- ME -- \$e Student author
700	1		\$a Culver, Wesley Paul \$u -- ME -- \$e Student author
700	1		\$a Vaz, Richard F. \$u -- EE -- \$e Faculty advisor
999	4 8		\$u http://www.wpi.edu/Pubs/E-project/Available/E-project-050205-042411 \$z ACTIVE LINK IS ON MFHD



Project Type	IQP
Authors	<ul style="list-style-type: none">• Wesley Paul Culver, wpculver@WPI.EDU, ME• Andrew D Ellison, andrew74@WPI.EDU, ME• Michael T Ochs, mykel@WPI.EDU, ME• Christopher M Schott, topher@WPI.EDU, ME
URN	E-project-050205-042411
Division	Social Studies of Science and Technology
Center	Melbourne, Australia
Sponsor	Country Fire Authority
Title	Exploring Potential Opportunities for the Fire Equipment Maintenance Program
Advisors	<ul style="list-style-type: none">• Demetry, Chrysanthe, ME• Vaz, Richard Francis, EE
Availability	unrestricted
Abstract	<p>This paper presents opportunities for expansion of the Country Fire Authority's (CFA) Fire Equipment Maintenance (FEM) program in Victoria, Australia. These opportunities were identified through interviews of CFA personnel and are intended to enhance community safety and, where possible, increase the revenue of brigades participating in the FEM program. The opportunities were researched and organised into areas of products and services, training, emergency management, and post-incident analysis. These suggestions were then presented to the CFA via a computer program and a detailed written report.</p>
Files	<ul style="list-style-type: none">• FEMReport05.pdf



RXV-AUS9

Exploring Potential Opportunities for the
Fire Equipment Maintenance Program

An Interactive Qualifying Project Report
Submitted to the Faculty of
WORCESTER POLYTECHNIC INSTITUTE
In partial fulfilment of the requirements for the
Degree of Bachelor of Science
by:

Wesley Culver

Andrew Ellison

Michael Ochs

Christopher Schott

Date: May 2, 2005

Report Submitted to:

Professor Chrysanthé Demetry

Professor Richard Vaz

Mr. Terry Hayes, Country Fire Authority Fire Equipment Maintenance Manager

Abstract

This paper presents opportunities for expansion of the Country Fire Authority's (CFA) Fire Equipment Maintenance (FEM) program in Victoria, Australia. These opportunities were identified through interviews of CFA personnel and are intended to enhance community safety and, where possible, increase the revenue of brigades participating in the FEM program. The opportunities were researched and organised into areas of products and services, training, emergency management, and post-incident analysis. These suggestions were then presented to the CFA via a computer program.

Leader	02340cam a2200409 a 4500	006	m: d
005	20060530154314.0	007	c: i nu--lluaa
008	060223 s 2005 mau a _ s b _ 0 0 0 _ 0 _ eng _ d		

... and after

Tag	l1	l2	Subfield Data
→ 088			\$a RXV-AUS9
099			\$a 05E026l
245	0	0	\$a Exploring potential opportunities for the Fire Equipment Maintenance program \$h [electronic resource]
246	3		\$i Title from database: \$a Exploring Potential Opportunities for FEM
256	8		\$a Electronic data.
260			\$a Worcester, MA : \$b Worcester Polytechnic Institute, \$c 2005.
300			\$a xii, 176 leaves : \$b col. ill. ; \$c 28 cm.
440	0		\$a Social Studies of Science and Technology
500			\$a IQP.
500			\$a RXV-AUS9.
500			\$a Faculty advisors: Chrysanthe Demetry; Richard Vaz.
500			\$a Liaison: Terry Hayes, Country Fire Authority Fire Equipment Maintenance Manager.
500			\$a Project center: Melbourne, Australia.
500			\$a Sponsor: Country Fire Authority.
500			\$a IQP Topic: Social Studies of Science and Technology.
504			\$a Includes bibliographical references (leaves 97-98).
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700	1		\$a Culver, Wesley Paul \$u -- ME -- \$e Student author
700	1		\$a Vaz, Richard E. \$u -- EF -- \$e Faculty advisor
700	1		\$a Demetry, Chrysanthe. \$u -- ME -- \$e Faculty advisor
999	4	8	\$u http://www.wpi.edu/Pubs/E-project/Available/E-project-050205-042411 \$z ACTIVE LINK IS ON MFHD
999			\$a \$a Record checked against project report, 4/14/2006, mg.



Exploring potential opportunities for the Fire Equipment Maintenance program

Title: Exploring potential opportunities for the Fire Equipment Maintenance program [electronic resource].
Variant Title(s): Title from database: Exploring Potential Opportunities for FEM

Location: E-PROJECTS

Call Number: [05E0261](#)

Status: Not Charged

Web Link: [Link to E-Project](#)

Primary Material: Book

Other Material Type: Computer File

Imprint: Worcester, MA : Worcester Polytechnic Institute, 2005.

Description: Electronic data.

Text (pdf).

xii, 176 leaves : col. ill. ; 28 cm.

Series: [Social Studies of Science and Technology](#)

Notes: IQP.

RXY-AUS9.

Faculty advisors: Chrysanthé Demétry, Richard Vaz.

Liaison: Terry Hayes, Country Fire Authority Fire Equipment Maintenance Manager.

Project center: Melbourne, Australia.

Sponsor: Country Fire Authority.

IQP Topic: Social Studies of Science and Technology.

Includes bibliographical references. (leaves 97-98).

Abstract: This paper presents opportunities for expansion of the Country Fire Authority's (CFA) Fire Equipment Maintenance (FEM) program in Victoria, Australia. These opportunities were identified through interviews of CFA personnel and are intended to enhance community safety and, where possible, increase the revenue of brigades participating in the FEM program. The opportunities were researched and organised into areas of products and services, training, emergency management, and post-incident analysis. These suggestions were then presented to the CFA via a computer program.

Mode of access: World Wide Web via Internet.

Contributor(s): [Schott, Christopher M. -- ME -- Student author](#)

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[Ellison, Andrew D. -- ME -- Student author](#)

[Culver, Wesley Paul -- ME -- Student author](#)

[Vaz, Richard F. -- EE -- Faculty advisor](#)

[Demétry, Chrysanthé -- ME -- Faculty advisor](#)



MacroExpress®
The Windows® Automation Tool

30 day free trial available at: <http://www.macros.com/>
US \$39.95 / single copy



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<http://www.wcnpa.ca/oww/fiedler/>