



# Robot Cataloger

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

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NEVUG



# Part I

## Overview





# Student Projects at WPI

## **The "Major" Qualifying Project (MQP)**

The MQP must be in the student's major area of study. This qualifying project should demonstrate application of the skills, methods, and knowledge of the discipline to solving a problem representative of the type to be encountered at the professional level. MQP activities encompass research, development and application, involve analysis or synthesis, are experimental or theoretical, emphasize a particular concentration in the major or combine aspects of several subareas. This project is usually undertaken in a student's Senior year.

## **The "Interactive" Qualifying Project (IQP)**

The IQP challenges students to identify, investigate, and report on a topic examining how science or technology interacts with societal structures and values. The objective of the IQP is to enable WPI graduates to understand, as citizens and as professionals, how their careers will affect the larger society of which they are a part. This project is usually undertaken in a student's Junior year.



# **Project Reports in the Library (formerly)**

- **Kept current 5 years**
- **Lack of shelf space an issue**
- **After 5 years, returned to  
Departments**
- **Selected reports kept**
- **Available to read within the building**



# **Project Reports in the Library (now)**

- **Keeping all physical copies (print, CD-ROM, videotapes) from 1999 forward**
- **Available to read within the building**

# The New Wave: E-Projects

- **.pdf format**
- **Currently a pilot project**
- **No shelf space required**
- **Electronic submission required for theses and dissertations beginning in 2003**



# Existing Finding Aids


- **Web database search/browse\***  
\* from Banner database
- **Encompass (Federated Search Tool)\*\***  
\*\* from Banner database via Web database  
(E-Projects only)
- **IGSD (Interdisciplinary and Global Studies Division)  
database search/browse\*\*\***  
\*\*\* (IQPs only)



# Why Not Voyager?









**I had attended a presentation at  
EndUser 2004 on using  
MacroExpress to move data from  
MS Access to Voyager**


# I contacted Joyce Bell at Princeton University She sent me some screenshots of their macro ...

 Macro Playback Speed: 1.5 Times Slower than Normal

 Repeat Start (Repeat 25 times)

 Clipboard Empty


 Clipboard Copy

 Delay 400 Milliseconds

 Variable Set String %T1% from Clipboard

 Text Type: <TAB>


 Clipboard Copy

 Delay 400 Milliseconds

 Variable Set String %T2% from Clipboard

 Text Type: <TAB>


 Clipboard Copy


 Delay 400 Milliseconds


 Variable Set String %T3% from Clipboard


 Text Type: <TAB>


 Clipboard Copy


 Delay 400 Milliseconds


 Variable Set String %T4% from Clipboard


 Text Type: <TAB>


 Clipboard Copy


 Delay 400 Milliseconds


 Variable Set String %T5% from Clipboard


 Text Type: <TAB>


 Clipboard Copy


 Delay 400 Milliseconds

 Variable Set String %T6% from Clipboard

 Text Type: <TAB>


 Clipboard Copy


 Delay 400 Milliseconds

 Variable Set String %T7% from Clipboard

 Text Type: <TAB>


 Clipboard Copy


 Delay 400 Milliseconds


 Variable Set String %T8% from Clipboard

 Text Type: <TAB>


 Clipboard Copy


 Delay 400 Milliseconds


 Variable Set String %T9% from Clipboard

 Text Type: <TAB>


 Clipboard Copy


 Delay 400 Milliseconds


 Variable Set String %T10% from Clipboard


 Text Type: <TAB>


 Clipboard Copy


 Delay 400 Milliseconds


 Variable Set String %T11% from Clipboard


 Text Type: <TAB>


 Clipboard Copy


 Delay 400 Milliseconds


 Variable Set String %T12% from Clipboard

 Variable Modify String: Copy Part of %T4% to %T20%


 Activate Window: "Voyager Cataloging"


 Alt Key Down

 Text Type: rnb

 Alt Key Up






















 Wait For Window Title: "Voyager Cataloging - [New]"

 Alt Key Down

 Text Type: 8

# ...160 lines or so

 Alt Key Up  
 Wait For Window Title: "008"  
 Text Type: <PAGE DOWN><PAGE DOWN><UP ARROW><UP ARROW>  
 Delay 300 Milliseconds  
 Text Type: %T20%  
 Delay 700 Milliseconds  
 Alt Key Down  
 Text Type: o  
 Alt Key Up  
 Wait For Window Title: "Voyager Cataloging - [New]"  
 Alt Key Down  
 Text Type: m  
 Alt Key Up  
 Shift Key Down  
 Text Type: <TAB>  
 Shift Key Up  
 Text Type: <F8><TAB><TAB><TAB><END>%T1%<DOWN ARROW><F8><END> %T2%<DOWN ARROW><F8><END> %T3  
 Delay 1 Seconds  
 Control Key Down  
 Text Type: b  
 Control Key Up  
 Wait For Window Title: "Voyager Cataloging - [Bib]"  
 Alt Key Down  
 Text Type: re  
 Alt Key Up  
 Wait For Window Title: "Voyager Cataloging - [New Hldg]"  
 Text Type: <TAB><END><F8><END>%T1%  
 Control Key Down  
 Text Type: b

 Control Key Up  
 Delay 700 Milliseconds  
 Alt Key Down  
 Text Type: rt  
 Alt Key Up  
 Wait For Window Title: "Voyager Cataloging - [New Item]"  
 Text Type: %T12%  
 Delay 500 Milliseconds  
 Control Key Down  
 Text Type: b  
 Control Key Up  
 Wait For Window Title: "Voyager Cataloging - [Item]"  
 Delay 700 Milliseconds  
 Delay 700 Milliseconds  
 Alt Key Down  
 Text Type: fo  
 Alt Key Up  
 Delay 500 Milliseconds  
 Activate Window: "Microsoft Access - [videos]"  
 Text Type: <TAB><SPACE><TAB>  
 Repeat End



**Once I figured out how it worked,  
I was able to produce a macro  
customized for our purposes.**

**It ended up being almost 700  
lines long.**





**Data is downloaded from the Banner database in ASCII, then put into Excel, and finally into Access.**

**(I'm more comfortable working in Access)**

**After a little manipulation ...**



Ref Number - T1	048013	Author6 - T16		URL - T41	<a href="http://www.wpi.edu/Pubs/E-project/Available/E-project-120304-111835">http://www.wpi.edu/Pubs/E-project/Available/E-project-120304-111835</a>
Date from Ref Number - T2	2004	Major6 - T17		E-restricted? - T57	<input type="checkbox"/>
IQP/MQP - T3	IQP	Author7 - T18		Second Indicator - T38	0
Database title - T4	College Housing Fire Safety	Major7 - T19		Done? - T58	02/21/2006 1:24:33 PM
Check?	<input type="checkbox"/>	Author8 - T20		BIB_ID	248645
Spell-checked Title	College Housing Fire Safety	Major8 - T21		Date Added to database	
Alternate title - T99	College Housing Fire Safety	Author9 - T22			
Use alternate title - T45	<input type="checkbox"/>	Major9 - T23			
Format - T46		Author10 - T24			
Abstract - T5	This project was sponsored by the U.S. Consumer Product Safety Commission (CPSC) to address the issue of fire safety in college residences and to assist in the achievement of the CPSC's strategic goal of a 20% reduction in fire-related deaths over the period of 1998-2013. We researched and analyzed the causes of fires, fire education programs, and fire detection and suppression. From this, we developed recommendations for the CPSC to address the issue of college housing fire safety.	Major10 - T25			
Author1 - T6	Kern, Gregory Martin.	Author11 - T26			
Major1 - T7	CS	Major11 - T27			
Author2 - T8	Hebner, Michael A.	Author12 - T28			
Major2 - T9	MIS	Major12 - T29			
Author3 - T10	Campagnola, Patrick David.	Advisor - T30	Petruccelli, Joseph D.		
Major3 - T11	CE	Dept - T31	MA		
Author4 - T12		Keyword1 - T32			
Major4 - T13		Keyword2 - T33			
Author5 - T14		Keyword3 - T34			
Major5 - T15		Keyword4 - T35			
		Project Center - T36			
		Sponsor Code - T39	P577		
		Sponsor - T37	Consumer Product Safety Commission		

(Fields marked in green are added after the download.)



# Macro Demonstration Video