Eastern American Choral Directors Association, Baltimore 2014

An Interactive Qualifying Project completed in partial fulfilment
Of the Bachelor of Science degree at
Worcester Polytechnic Institute, Worcester, MA

Submitted to:
Professor John F. Delorey, Advisor

In Cooperation With:
The American Choral Directors Association Eastern Division
Professor Robert Duff, President

By
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Date:
March 7, 2014

This report represents work of WPI undergraduate students submitted to the faculty as evidence of a degree requirement. WPI routinely publishes these reports on its web site without editorial or peer review. For more information about the projects program at WPI, see http://www.wpi.edu/Academics/Projects.
Abstract

The objective of the “Eastern American Choral Directors Association, Baltimore 2014” Interactive Qualifying Project is to integrate music and technology through an application and to provide a technical kiosk at the conference. To assist in the conference members of this project prepared months in advancing researching. This report shows information accumulated through research and feedback about the application, which can serve as a guide for future conferences.
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Introduction

Since 2005, the Eastern Division of the American Choral Directors Association has sponsored a WPI IQP team for research at their division conferences. For each conference session, the IQP teams have in some way been involved in researching how choral musicians interact with technology. Through the use of Technology Kiosks, WPI students have suggested interfaces and designed surveys to poll conference attendees on topics such as the Virtual Choir, Virtual Orchestra, Paperless Reading Sessions, Paperless Choral Classroom and Online Choral Databases.

This year, the conference engaged a professional company to design and implement a mobile app for the conference. WPI was charged with research the application and assist in trouble shooting during the conference. EACDA collected the data from the in-app survey on the success of the application at the National level and will present this data to the WPI students when assembled. In addition, the students designed, implemented and staffed a Technology Hub for the entire conference, February 4 – 8, 2014, which showcased the research being done at WPI in the field of choral music and technology, featuring Dr. Scott Barton and his musical robots.
Background & Research

Previous Paper Review

The first task we had to do to prepare for the Conference was research the previous IQP papers which were uploaded on Dropbox by Professor Delorey. Each person was responsible for individually reading all four of the IQP paper from the previous years. Each of project members was asked to review IQP papers regarding the interface between technology and music and other fields. The goal of reviewing previous project was to get familiar with projects and to figure out where to improve.

The New York City group focuses on the relationship between music and technology. They create maps of the local care and to construct the ACDA schedule. All the information was up on their kiosk.

This project also investigate ability use e-ink technology to alleviate the paper used by choral musicians, the results demonstrated people were enthusiastic about the digital choral folders, but there was an issue of which way the pages should turn and the group recommended the following groups to solve this problem.

There is also a project done about the Virtual Choir. The group used the work Spem in Alium by Thomas Tallis for their example; they programmed the virtual choir to perform the 40-part piece. They were successful in programming the piece of music, but there was still more to be done regarding the development of the program.

The group in Hartford focused on score projection. Music educators were given hardcopies of some music while the rest of the music was screens. When there was a hardcopy of the music, the participants rarely watched the conductor, but with the projected scores participants were more likely to observe the conductor. The delay with the page turning was another problem that arose.

There were also groups focused on the exploration between music and technology with respect to choral directors and education. They also present the continued research that is done by WPI students and faculty.
The project of “towards a paperless choral classroom” was also done by a group of WPI students previously. The goal is to integrate music and technology and to provide a template for a paperless choral conference for EACDA. The group suggested to use routine choral practices and can serve as a guide for future choral conference.

**Websites**

The ACDA is located several places in the country. It is divided into many sub-groups around the country by area. And there is own website for each sub-groups. Users or members can log in the website that is included as there area. With reviewing and testing each websites, the group members there find it still many places to be improved. But still, the website provides a briefly indication of each states and technological endorsement from the respective boards.

**Equipment List**

In order to get the best working assistance and improve working efficiency, we need to have proper equipment with us in the conference. Each group did the research and made presentation to show their idea. The draft of equipment list and the cost were is shown in appendix B. Considering about the cost, after we negotiated with LNL and ATC department, we finally modified the equipment list as you can see in appendix B, and all of the equipment was provided by Professor Delorey, EACDA and ATC.

**Application for Conducting**

During the conference, every audience could use different electronic device to access online to read about the conference. We want to give them the best web experience, so we try to test file in different platforms and see what is going on there. Each group designed and test a PDF with the application for conducting form. We have 10 people fill out the form online on at least two different platforms (Mac and PC), three different browser and use Tablets and phones as well. The form is shown in appendix B.

**Curate R and S:**

We classified the recommended music by R and S chairs excel chart into six PDF forms, which
are Advanced SATB, Beginning and Intermediate, Children and Youth, Junior High – Middle School, Male Choir, and Women’s Repertoire. We used the same layout in order to be more convenient and legible.

**Master Schedule:**

The old master schedule was arranged by time, but it hard to compare day by day and which conferences will hold in the same time and different locations. We want to give audiences a more clear schedule to help them can figure out their own schedule during the conference. We transferred the Master Schedule into Google Spreadsheet, which is a more readable format. People can select specific time to show what activities will help at this time. The online version of master schedule is more flexible than the old word file. People could clearly see what is going on during the same time and choose what activity they want to participate in these days.

**YouTube Conversion:**

For the objective and fair consideration, we want to convert each candidate’s application video to a common YouTube account without their names. We uploaded and converted the video onto YouTube. First we checked out YouTube link was private or not. If it was private, we contacted candidates by email to get permission of the video. Second, we downloaded the video and uploaded to our YouTube account without candidate’s name. Lastly, we copied the video’s link and send out in email to examine.

**Interview Professor Manzo:**

We interviewed professor Manzo to get more information about music and technology integration. Nowadays, technology makes sharing and learning music easier than before, like how technology can help people are disabled to learn and play music. He is really interested in how technology can help people who are not musically trained. He suggested the conference to have a lot of application open for people to interact with, to help us spark question about technology.
**App critique:**

We did some research and tried the App for the Conference and came out the feedback. The App was very intuitive and easy to use. First, it was not very tablet & iPad friendly. When one opened it on the tablet, the size and layout of the icons did not change according to the size of the screen. But it seemed normal when opening in the smartphones. Second, we had trouble logging in. Third, the map was vague for people to find the location.
Methodology

A significant portion of our project was based around critique of the app used for the Eastern Division conference for the ACDA. The app was used to provide information about the conference to members, as well as allow them to keep track of events that they wanted to attend. The app used was created by the company GenieConnect, a company based out of the UK. Their app is designed to be used at conferences like the one we attended.

This guidebook app was used pretty extensively by people at the conference, and many of them came to the tech booth with questions or asking for help. The main question we received was how users were supposed to log into the app. This could have been made a lot clearer by allowing people to sign up for the app rather than pre-assigning login information. User logins were determined by combining last names with ACDA member numbers, and all members were assigned logins regardless of whether they were attending the conference. Only people with access to the GenieConnect system were able to make changes to the logins, and very few people had that access, meaning it was difficult to get people from other divisions into the app. Not being able to log in left the user with limited functionality.

The app had a number of features for conference goers. For example, a list of all activities at the conference, with their times and locations, was provided; users could sort by type (such as interest session or honor choir rehearsal), select an activity to view more detailed information, or favorite interesting activities so that they could be easily looked up again later. The app also offered the option of commenting/rating a session they had attended to give feedback.

Another feature the app featured was a detailed map of the local area showing the locations of the hotel and possible restaurants that conference goers might visit in between sessions; similarly, floor plan images for the hotel were included. This helped significantly because the conference was very spread out making it nearly impossible to navigate by oneself.

Another notable issue was the prevalence of updates to the app during the
conference. Since the updates did not download automatically and the update button was not obvious to the average conference-goer, many of the users were frequently navigating the conference based on outdated information.

**Conclusion**

Overall, the app provided a useful resource for choral directors to get the full conference experience. Manning the tech booth allowed us to provide support for the application as well as solving any other technical problems that arose. This app allowed easy access to all of the different schedules, detailed maps of the hotels and the area nearby, and a flexible system for sending out updates. The two years of planning for this event showed in how smoothly the conference ran throughout the four days. The overall project was deemed a success by the heads of the Eastern American Choral Directors Association.

**Appendix A**

**Inventory**

We were able to keep inventory by making a check in and check out list that we signed off our initials for when we loaded one of our group members’ car with the equipment and when we unloaded it. This was an easy and simple way to keep track of all the equipment that we had. This also helped us to organize our equipment a lot faster than trying to figure what equipment was ours and what was not.

We divided the sign off list by who provided the equipment to us, thus we came up three different categories. The first was the equipment provided by the ATC, second equipment provided by Prof. Delorey and third equipment provided by LNL. Each department we got equipment from had their stuff labeled so it was easy to keep track of which piece of equipment belonged to whom. This also helped with organizing everything back together and helped us not to get confused with the equipment provided to us by the EACDA.
### Table 1: Equipment Checklist

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Provided By</th>
<th>Number</th>
<th>Check In (Initials)</th>
<th>Check Out (Initials)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projectors</td>
<td>ATC</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cameras</td>
<td>ATC</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tripods</td>
<td>ATC</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Headphones</td>
<td>ATC</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDMI Cable</td>
<td>ATC</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extension Cable</td>
<td>JFD</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sound Board</td>
<td>JFD</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printer</td>
<td>JFD</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paper</td>
<td>JFD</td>
<td>1 Ream</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Booklight</td>
<td>JFD</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printer USB Cable</td>
<td>JFD</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printer Power</td>
<td>JFD</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Headphones</td>
<td>JFD</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Holiday CD</td>
<td>JFD</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WPI Orchestra</td>
<td>JFD</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Singing</td>
<td>JFD</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music @ WPI</td>
<td>JFD</td>
<td>n/a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XLR Cables</td>
<td>JFD</td>
<td>n/a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SM57 Mic</td>
<td>LNL</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MD 421</td>
<td>LNL</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small Diaphragm Condenser (AKG C100)</td>
<td>LNL</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large Diaphragm Condenser (KSM 27)</td>
<td>LNL</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boom Stands</td>
<td>LNL</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cables</td>
<td>LNL</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MK2194</td>
<td>LNL</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Xemxy 1204</td>
<td>LNL</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Macky Mixer 1202</td>
<td>LNL</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Countryman DI</td>
<td>LNL</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMP7</td>
<td>LNL</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Appendix B

Audio/Visual Equipment List

- 12 iMac
  Size: 27 inch
  Cost: 1.799 per computer

- 3 Vizio Smart TVs
  Size: 50 inch
  Cost: 650.00
  - Can connect TV directly to internet, to use different apps such as YouTube

- USB 2.0 A to A Cable
  Size: 6ft
  Cost: 4.99

- Pyrepro Microphones
  Cost: 11.00

- Yamaha CM12V Speakers
  Size: 12 inch
  Cost: 360.00

- LP-2020A Mini Amplifier
  Cost: 20.74

- AudioSource AMP-100
  Cost: 130.25

- HDMI Cables: Would need about 15 in total
  - Apple HDMI Cables
    Size: 6ft
    Cost: 20.00
  - Home Theater 2841 HDMI Cable
    Size: 25ft
    Cost: 17.00
  - HDMI Adapter for iPad
    Cost: 20.99
  - Belkin Pivot Plug Surge Protector
    Cost: 35.00
    - 12 plugs per Surge Protector, would need about 3 surge protectors
  - Asus RT-AC66U Dual-Band Wireless-AC1750 Gigabit Router
    Cost: 184.99
    per router
    - 4 ports each router, would need 4 routers
  - Panasonic RP-HTF600-S Headphones
    Cost: 29.90

Figure 1: Draft Equipment List

Table 2: Final Equipment List

<table>
<thead>
<tr>
<th>Equipment List</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Provided By ATC</strong></td>
</tr>
<tr>
<td>7 HDMI Cables</td>
</tr>
<tr>
<td>4 Video Cameras</td>
</tr>
<tr>
<td>4 Tripods</td>
</tr>
<tr>
<td>2 Projectors</td>
</tr>
<tr>
<td>4 Headphones</td>
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<tr>
<td></td>
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<td></td>
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<tr>
<td></td>
</tr>
</tbody>
</table>
Figure 2: Application for Conducting PDF Form
Appendix C

Presentations

The iTeam:

**Work Done So Far...**

*The iTeam*

Yixuan Tong

Yiran Zhang

Shanilah McDonald

Tianhe Chang

Advisors

Professor John Delorey

Professor Scott Barton

Sponsor

Professor Robert Duff

President, ACDA Eastern Division

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**Introduction**

- Paper Review
- Application for Conducting
- Tech Booth Suggestions
- Meeting Professor Manzo
- EACDA Master Schedule
- YouTube Conversion

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**Paper Review**

- In this PowerPoint presentation we conducted our research by reading the previous years:
  - JSP paper
- Finding that we were able to make a presentation of our findings:
  - In 2015, the iTeam focused on improving the existing cloud music library, ensuring accuracy of database and bringing technology to the conference.
  - A list of the primary use of JSP research was key to finding the best program to use for video conferencing and the making:
    - The paper had a lot of strengths including basic setup and their general research
    - The paper also had some weaknesses which included consistency and the usage mobile application.

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**Tech Booth Suggestions**

As a team we did a list of research to find the type of equipment that we would and might need for the ACDA conference in Baltimore. With that research done we created a list of those items:

- 12 Items:
  - 3 Day 27 inch: Cost: $799 per computer
  - 3 HD Video 720p/1080p: Cost: $499
  - Can connect TV directly to internet, to use different apps such as YouTube

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**EACDA Master Schedule**

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**Meeting Professor Manzo**

- Prof. Manzo became very interested in music and technology integration when he was a teacher for 4-12 and had a range of students at different levels in music.
  - He is really interested in how technology can help people who are not musically trained.

- Technology makes sharing and learning music easier than before
- Likes how technology can help people who are disabled to learn and play music
- Suggested for conference to have a list of applications open for people to interact with, to help us answer questions about technology
YouTube Conversion

- Check if YouTube link is private or not, if it is private, we contacted candidate by email to get permission of the video.
- Download the video and upload to our YouTube account without candidate's name.
- Copy the video's link and send out in email.

YouTube Conversion links:
- http://www.youtube.com/watch?v=yr7A9hl3E7w
- http://www.youtube.com/watch?v=9tLZ6WQw2aM
- http://www.youtube.com/watch?v=Qc1a7WQl42Q
- http://www.youtube.com/watch?v=8Hk3p773la
- http://www.youtube.com/watch?v=9jgJ2Q4-Y
- http://www.youtube.com/watch?v=Q7Q899E2sf0

Conclusion

So far, for preparing for the conference in Baltimore, we reviewed and analyzed the previous IQP papers, made PDF for application for conducting, listed the equipments needed for Tech Booth, created master schedule spreadsheet, interviewed Professor Manzo and YouTube conversion.

We are looking forward to take part in and do our best to help make the conference a success in February.

Baltimore Superteam:

Work Summary Report
Zhenyan Li '16 Mathematical Science
Nicholas Wolitica '15 Computer Science / IMGD
Martin Prelan '15 Biomedical Engineering
Christopher Tabbert '15 Computer Science

Advisors
Professor John Delorey
Professor Scott Barton
Sponsor
Professor Robert Duff
President, American Choral Directors Association

Overview: A-term

- Researched previous year's IQP paper (Video-conferencing)
- Created a fillable PDF form for Application for Conducting
- Created instructions for participants to submit applications
- Revised form for final PDF

Overview: B-term

- Discussed booth content based on past IQPs
- Met with LNL to create equipment list for Baltimore
- Created a new Master Schedule for conference
- Uploaded applicant videos to YouTube for privacy, anonymity

Research

- Videoconferencing documentation
- '08, '10, '12, '13 IQPs
- Adobe documentation
- LNL consultation
- Original conference schedule
Team Purple Cobra:

ACDA 13 IQP
Mike Calder, ’15, CS
Adam Chaukul, ’15, ECE
Mike Derryberry, ’15, ECE
Seth Queller, ’14, ECE

Advisors:
Professor John Delaney
Professor Scott Barton
Professor Vincent Manto
Sponsor
Professor Robert Duff
President, Eastern American Choral Directors Association

Contents

• A Term Overview
• B Term Overview
• Research
• Questions?

A-Term Overview

• Researched previous IQP Papers
  • Tech-Booth
• Created a fillable PDF for Conducting
  Applications
• Created a Youtube guide for creating
  private channels

B-Term Overview

• Uploading applicants’ videos
  • Interview with Professor Barton
• Past IQP Paper Research

Research

• Tech Booth Ideas
  • Digital Choral Folder
  • Brochures
  • Musical Robots

Questions?
Agenda & Minutes

**FACDA IOP 1-22-14  Minutes**
Wednesday, January 22, 2014  5:38 PM

No video feed for concert hall
One master laptop giving powerpoint feed to other screens
Scheduling application
Create a final equipment list
  o 4 projectors from ATC
  o 3 tables (2 6ft tables and 1 4 ft table)
  o 5 microphones with 5 stands
  o 6 extra extension cords
  o 4 power strips
  o Preferably 3 video cameras

Arriving Wednesday afternoon with robots
Performing Wednesday and Thursday night

Week from this Sunday, we will perform practice run

By Sunday, we need an organized way of viewing PDF's

The iTeam:

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11/12/13 Meeting Agenda
ACDA 14
Shanilah McDonald (CH), Yixuan Tong (SEC), Yiran Zhang, Tianhai Chang,
Prof. Delosky (ADV)

1. Minutes
   Assignments:
   • Create a group name
   • Make a list of questions for Prof. Manzo
   • Arrange the interview with Prof. Manzo

2. Accomplished since last meeting/Old Business
   • Group name created
     o The iTteam
   • Secured a meeting time with Prof. Manzo
   • Researched information about Prof. Manzo
   • Each created a question list

3. Discussion/New Business
   • Finalize question list for Prof. Manzo
   • Decide which 2 team members with interview Prof. Manzo

4. To Accomplish by next meeting/Action Items

**Goal Statement:** Meet with Prof. Manzo and see how he could help us with our project.
Baltimore Superteam:

10/16/13 Meeting 5 Agenda
ACDA 14
Nicholas Mollica (CH), Martin Phelan (SEC), Tucker Tibbetts, Prof. Delorey (ADV)

1. Minutes
   Assignments:
   • Introduce ourselves to Bob Duff and Wayne Abercrombie
   • Create a fillable PDF Application for Conducting
   • Write instructions on uploading a Youtube video anonymously

2. Accomplished since last meeting/Old Business
   • Researched how to anonymously upload a video to Youtube [TT]
   • Created a fillable PDF form [NM]
   • Wrote instructions on filling it out [MP]
   • Wrote an email introduction [MP]

3. Discussion/New Business
   • Very difficult to upload a video to Youtube anonymously
   • How are the forms being collected

4. To Accomplish by next meeting/Action items
   • Discuss best way to upload a Youtube video ANONYMOUSLY

Goal Statement: Introduce ourselves to the group, create a fillable PDF Application for Conducting, and write instructions to fill it out and upload a video to Youtube

Team Purple Cobra:

11/06/13 Meeting Agenda
ACDA 14
Mike Calder (CS), Adam Chaulk (ECE), Mike Derryberry (ECE), Seth Gyebi (ECE), Prof. Delorey (ADV)

1. Minutes
   To be completed following the meeting

2. Accomplished since last meeting/Old Business
   • Made suggestions for tech equipment

3. Discussion/New Business
   • N/A

4. To Accomplish by next meeting/Action items
   • To Be Determined
1. **Minutes**
   [One space between SECTIONS. Single-space otherwise.]

2. **Accomplished since last meeting/Old Business**
   - Meeting Time – Thursdays 9-11 AM
   - Made PowerPoint
   - Researched WebEx vs. Wimba

3. **Discussion/New Business**
   - Present PowerPoint
   - Make PDF

4. **To Accomplish by next meeting/Action items**
   - N/A

We will be adding:

**Goal Statement: N/A**

- Page numbers
- References slide
- Conclusion slide(s)

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**Appendix D**

**Desktop Background**

![ACDA Conference Logo](image)

*Figure 3: ACDA Conference Logo*