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AMERICAN CHORAL DIRECTORS ASSOCIATION EASTERN DIVISION CONVENTION

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AMERICAN CHORAL DIRECTORS ASSOCIATION EASTERN DIVISION CONVENTION

An Interactive Qualifying Project Report

submitted to the Faculty

of the

WORCESTER POLYTECHNIC INSTITUTE

in partial fulfillment of the requirements for the

Degree of Bachelor of Science

by

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This report represents the work of one or more WPI undergraduate students submitted to the faculty as evidence of completion of a degree requirement. WPI routinely publishes these reports on its web site without editorial or peer review.

Abstract

An Interactive Qualifying Project is a project that seeks to relate technology and science to societal or human needs. The aim of our project is to gain a better understanding of how new technologies, such as paperless music or the Choral Digital Folder, can be implemented into the music world. It is our hope that by moving to technology based platform we can not only save valuable resources but also to provide musicians with better ways to share their music with the world.

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Introduction

The American Choral Directors Association Eastern Division Convention (EACDA) Interactive Qualifying Project (IQP), advised by John Delorey, was a project of larger proportion than had been expected. The project was to build and run a website and information kiosk at the EACDA convention. This responsibility had been a WPI IQP the previous year as well. One of the main goals of this project was not only to learn from the mistakes and suggestions of their project and avoid any troubles they ran into but also to promote technology as the future in music.

The project was started by a few of the group in A term of 2007. The first stage of this project was to thoroughly read through the previous years IQP report. They then each wrote a paper to narrow down what the major strong points and weaknesses of the previous project were. These papers were then presented to the remainder of the group who were to start in B-term.

Once B-term began the primary focus shifted to the creation of an information website that would be used at the convention. This website and kiosk were the major focus of our project, although there were a number of other interrelated MQP s and IQP s which would be attending the same convention. We started by critiquing a number of individual state's ACDA websites. The purpose of this task was to give an idea of what sort of layout was easiest to use while visually pleasing and also to identify trouble areas that we should avoid on our website. After each sending short reports on this, we continued to search the web for what a good website looked like.

The group was then split into two smaller groups. We were to meet on our own and brainstorm in order to describe exactly what we expected and wanted to see on the website. These groups worked out quite well and within a fairly short period we had a layout and color scheme. As the base HTML code was created, the rest of the groups were then back to meeting about content of the website.

It was agreed upon to have a very simple home page with a greeting and short abstract about what our goal at the convention was. We had five tabs on the top banner of the website that would each take you to a different page

with information about the convention. The first tab was the Home tab. As expected this link took you back to the homepage of the website. The second tab was the Schedule tab. This page of the site contained the schedule of all events at the convention by time and day. The next tab was labeled Food and Fun. This page was a list of places to go in Hartford. The convention would end fairly early each day and give the directors much free time to explore the city of Hartford. We gave them an extensive list of shows playing in local theaters, restaurants, bars, museums and shopping centers. Each place had a pop-up map showing directions from the convention center to that specific site, a phone number and brief description of the place. The next tab was Sheet Music. This was a part of one of the related IQP's that were being presented at the convention. The goal of this IQP was to test the implementation of technology to ease the storage and reading of music by projecting the music digitally instead of using hundreds of paper copies. The final tab was an About Us section. This section contained a brief biography about each one of the IQP team members.

Once the website was created and running, the gathering of necessary equipment became the focus. Many of the screens were borrowed from the Academic Technology Center (ATC). Professor Bianci was also kind enough to lend to team 2 of his Apple iMacs from the recording lab. One major issue that we encountered was that no towers were available from WPI. This was solved by using both ATC laptops and also personal laptops of students. We kept the workstations uniform by hiding the computers below the tables with only monitors and mice on the table.

Throughout the project individuals were given specific jobs to make sure things ran smoothly. One person was in charge of making sure everyone had a ride down to the convention center and back and also setting up a schedule for the kiosk at the convention. Others set up and made sure that everything was accounted for at all times. Others were in charge of the maintenance of the website, projections of submitted images in the convention lobby, and the related MQP experiment that was conducted at the kiosk.

The following paper is a combination of papers written by team members about the convention,

Methodology

Kiosk Assessment

Anthony DeVecchio

As a part of the WPI Technology Team at the 2008 Eastern American Choral Directors Association (ACDA) we were focused on incorporating music and technology. One of the main ways we decided to do that was to have a technology kiosk available to all of those at the convention center. In the following paragraphs I will be assessing each phase of the kiosk from design and planning to setting up the kiosk.

The first step in creating the kiosk was the design phase. It was at this point that we decided to have a number of computers hooked up to a server which would contain an informational website regarding the convention and surrounding area of the convention center. After much discussion on what makes a website both good and bad we broke off into two groups to come up with two different website proposals. When one was chosen, our programmer, Gerard Dwan, began work on creating the website. Each proceeding week we gave our feedback and ideas to Gerard until we reached the final product. Overall I feel the process went very well and that it provided an easy and quick way to come up with a professional, informational, and easy to use website.

Next we decided on how many computers and equipment we would like to have. This was all based on the assumption that we would be receiving four eight-foot tables. Unfortunately, our list was not brought to the renters of the equipment until nearly a week before the convention. This led to several problems. Because of the limited amount of time, the renters were unable to lend us some of the equipment we required. They also did not have some of the equipment available. Thanks to many of the members of the IQP team, personal equipment in addition to what we could rent provided for a more than adequate set up. In future years it is imperative that equipment concerns and dealing be dealt with at the beginning of the project.

Lastly came the testing, load in, set up, and load out of the kiosk. Two times before the final set up at the

convention center, all equipment and essentials were set up and tested. This is an absolute must and insured the flawless running of our equipment. All bugs and issues were dealt with almost a week before the convention even started. Load in went well with only a few issues in directions to the loading dock. All members of the team helped with the unloading and brought the equipment up to the appropriate area of the convention center. It was then when we came to our first obstacle. The area where we were going to be setting up would not be available until the next day. Without knowing where exactly we would be setting up, or what we would be setting up on, the team became frustrated and it was difficult to stay organized.

After talking with both the convention center and ACDA staff we were finally able to secure the room later that night to set up our equipment. Set up went just like it did in the testing sessions and everything worked like it should. The front table consisted of WPI advertisements, the iPod Shuffle raffle tickets and on each corner an iMac. On the two side tables were PC style computers; two on each side. This particular set up allowed conventioners to use which ever type of computer they preferred. It was also chosen at this time to eliminate keyboards from all computers except for the one computer that would be available to conventioners to go onto the internet. Next time it might be more appropriate to have two computers set up in this fashion so that there is less of a line. Internet users were limited to five minutes each. Lastly, in the rear of the kiosk was the prototype experiment related to the digital choral folder. This positioning was ideal since it was out of the way of the main flow of traffic and allowed the rest of the kiosk staff to go about their duties without getting in the way of those running the experiment.

Load out went even smoother than load in since we had done it so many times. Everyone took part and the kiosk was left clean and in an orderly fashion.

William Lauwers

The running of the Information Kiosk at the 2008 ACDA Convention in Hartford Connecticut was an absolute success. Many people were impressed to see what this small group of WPI students was able to set up for them. Although this was all nice there were still problems in the running of this kiosk. There were many flaws in the running of the kiosk as well.

Individuals were given specific tasks fairly early along the quarter. This was to try to make sure that no small details were missed with multiple people or multiple groups working on the same things. The problem with this was the time wasted. Much time was spent in these groups with very little great information put forward. In part I blame this on location of meetings at the library instead of late evenings with drinks and talking about it. This also would further the bonding of the team which is always helpful.

The website was the foremost concern for much of the quarter. Only one person in the group was writing the code for it, but we were all spending the proportion of our time towards the site. This seems like a great waste of many peoples capabilities and time.

Internet was a big concern with our project because our access was highly restricted and many people wanted it. Giving access to the internet on all of the computers should have been a minimal kiosk attraction. We had access, but did not offer it. The keyboards were also on site, but were removed from the monitors to keep people only on the ACDA homepage. The problem with this is our representation of WPI, a forerunner in technology. Lacking internet and keyboards can only run one into the past. Wireless would have been a wonderful accessory.

The kiosk was also overstaffed throughout the convention. This was aggravating for many reasons. Due to overstaffing many people found it unnecessary to stand within the kiosk through their shift. This is very discouraging in a team and leads only to gossip and insults. The overstaffing also can make the kiosk overly inter-social. Many students would start to turn in towards the center of the kiosk to chat, instead of facing out to the convention goers. Our staff rate was four people always at kiosk.

There were also a few aspects that were worth noting. The website was a huge success as we received many compliments about it. The MQP experiment was also a big success as it drew people over to the kiosk. The raffles for iPods was also a success. One iPod Shuffle each day and a iPod Touch for a final prize. This drew in the crowds. The free USB keys preloaded with PDF files of choral music were a good idea.

One part of the kiosk that wasn't that necessary was the admissions information. The admissions papers covering the entire front table was a little offbeat. This was an American Choral Directors Association, and the first thing in the entrance of their convention was admissions pamphlets to WPI. The banner was great. Some grabbed pamphlets while tediously explaining their child's college decision process. There was no high school crowd to try to draw from this event, therefore admissions connections are only needed for the banner or free things such as puzzles and WPI toys.

Matthew Madden

Maintaining the kiosk was the main part of our IQP in Hartford. This was what all of our work in B term was preparing us for and I felt that the Kiosk turned out to be very successful. Granted there were problems and a bit of craziness right before the time of the convention but we were able to pull off a great job in the end. The actual load in and load out process went fairly smoothly and very quickly as well. We also could not have asked for a better location in the convention. All of these factors contributed to what I felt was a job well done.

The load in and load out was where we had the most problems. The first problem was the bad weather which was out of our control. The next problem was with people arriving at different times and not everyone having the right directions to the loading dock. Arriving at different times could be attributed to the weather, but there were a few cars that got lost either in Hartford or on the highway somewhere. This also leads to our biggest problem which was poor communication. A lot of small problems could have easily been prevented by good communication. In my opinion we did not all work together as a team until we were actually at the kiosk in Hartford. We were broken up into small groups and tasks were assigned individually leaving a lot of people out of the loop on certain issues. However, once we are at the convention center in Hartford the actual set up of the kiosk went very well. It was a quick and easy process due largely to the fact that we had a practice set ups on the Sunday and Tuesday before we left. This made sure we had everything we needed and gave us more organization in packing up and setting up the kiosk. This was the most beneficial work that contributed to the load in and out processes. The load out was a little sloppy mainly because there were a lot of people just sitting around not helping packing things up. I think the main reason for this was the bad distribution of work that made some students not want to help since it was not their job. Breaking down the kiosk did go rather quickly also due to our organization from the practice setups.

The set up of the kiosk was almost perfect. We had the absolute best location in the convention which definitely contributed to our success. I think that the shape of our kiosk was fine with the only entrance to the inside around the back. If we had counter height tables it would have looked a little more professional, but the regular

tables allowed us to be more personal with everyone who walked by. I would definitely suggest pushing for the same type of location in future projects.

There were a few improvements I feel could have been made to make the whole project a lot better. The first issue I would like to address is the amount of people working at the kiosk at any given time. We had four people manning the kiosk and I felt it was too crowded and there was always at least one person doing nothing. Three people would be more of an ideal number and could easily cover the busiest rushes. I would also suggest having no internet due to the fact that most of the people that stopped by just wanted to check their email. There was always a line for the one computer with a keyboard and often times the students working at the kiosk did not enforce the five minute rule. One last idea that I think would benefit the project is to have a meeting beforehand to discuss with everyone exactly what we should be saying to people at the kiosk. Some people were fine without this preparation, but I did hear a few people who did not know what to say frequently and would refer to other project members for the answers.

Overall the kiosk was very successful and everyone really came together as a team at the convention in Hartford. Everyone was a good ambassador for WPI and all the people who stopped by really seemed to enjoy our presence there.

Katherine McKenna

Although our load in and load out did not go as smoothly as planned, the kiosk was well received and used frequently by many convention goers. We had virtually no problems setting up and getting the network to run properly. Our location was ideal and the layout worked wonderfully. My biggest problems were loading in and loading out.

Load in was not as successful as I had hoped due to several things. The first was the weather. No one likes to drive in rain and sleet let alone transport expensive equipment. This, however, cannot be helped. The things within our control that went poorly were communication and distribution of work. The individuals in charge of load in failed to inform the group exactly where they were going to be the day we packed up. Several of us stood around waiting for them while they stood somewhere else waiting for us. Communication was a huge problem in this project. The next issue was the level of work expected of each person. This, ultimately, was also a breakdown in communication. No one knew which boxes were going in which cars, or who had directions. Several cars were not responsible for any equipment and left early. One or two individuals found this bothersome, but the majority felt it was best for those not taking equipment to get out of the way so others could load up. Overall the load in was a success, but it could have been neater.

The kiosk itself was wonderful. Being located in the front of the exhibit hall was amazing. We received a large amount of visitors simply because of our prime location. Our layout was nice because it provided access from every side which allowed for more computers and less crowding. The debate over internet availability will most likely never end. In my opinion, we should have provided a few more computers for internet, but not all of them. Although it was nice to be the popular kiosk, we want to draw attention for our website and prototype, not just free internet. Overall, the setup was nice and it was well run. It would be nice to have higher tabletops so students will feel less awkward standing in the middle. Also, there should have only been three people scheduled at a time because there was not enough space to fit four.

Another wonderful aspect of the kiosk was the prototype demonstration. Our presence at the convention was meant to link technology and music in creative and thought provoking ways. Offering the chance to test the digital folder was one way of accomplishing our goal. Although the two projects were separate, they were easy to bring together because they both centered around music and technology. I thoroughly enjoyed having the MQP group at our kiosk.

Lastly, my thoughts on load out. The process of breaking down our equipment and packing it correctly was done quickly and efficiently. Nothing was forgotten or misplaced. The act of loading it into cars and leaving was, again, disorganized. No one really knew who was taking what. Upon returning to school, not everything was put back where it came from. This may have been due to lack of communication or laziness on the part of the individuals in charge of the load out process. Either way, everything was eventually returned to its proper place. We lost nothing and managed much better than the group before us.

In general, I think the kiosk was setup and run well, and the load in and out were not total disasters. There is plenty of room for improvement, but we also improved a great deal since the last time this project was done.

Anthony Petrocchi

From the point of load in on Wednesday, February 13th, 2008 to the time of load out on Saturday, February 16th, 2008, the information kiosk at the 2008 Eastern Division American Choral Directors Association Convention was, on the grand picture, a success. Although not all processes and functions occurred ideally, there were no major concerns or occurrences that interrupted the functionality of the event or disturbed our purpose and participation in the convention.

Load-in and the commute to Hartford, CT went rather smoothly, however, there were some small issues with arriving to the convention without getting lost. Team members did a great job working together to make sure that all equipment was accounted for, packed safely, stored in vehicles, and delivered to the CT Convention Center. There were no flaws in this phase. However, one vehicle did have trouble making it to the Connecticut Convention Center. Fortunately, the group planned accordingly before hand to account for the possibility of this occurrence. As a result, the delay in arrival did not force a delay in being fully prepared for the event.

The design of the kiosk was rather good; however, some adjustments would have been made if the resources were available. Having six computers was surely enough; however, there was an issue on the topic of internet connectivity. Having the ability to use the internet seemed to be a popular commodity for exhibit visitors. Therefore, having more internet availability may have been beneficial. It was nice displaying the WPI Admissions materials and gave a nice sense of pride and representation of who we are, where we are from, and who we represent. The group should have taken more time to deliberately think about what exactly should have been on display on the admissions table. Some materials were not necessary while other materials, such as the USB keys, were scarce in supply. The fact that the computers were at desk height, rather than kiosk height, was something that would have been changed if the resources were available. Visitors seemed to be too comfortable sitting at the kiosk, and this proved to especially be an issue when attempting to force an internet usage time limit. Being that the set-up was at desk height, the information kiosk did not seem as approachable. We did have a lot of traffic and visitors to the tables, however, a

lot of this had to do with the prime location. Being front and center, and the first thing visitors see when they walk into the exhibit hall, was the most crucial factor that led to the success and popularity of the kiosk. This fact also did great for the WPI Music Technology Department in allowing it to earn the strong reputation that will allow the department to be invited to future ACDA conventions. The prototype demonstration of the Choral Digital Folder (CDF) went unbelievably well. Directors and visitors were very willing to partake in the experiment and have the opportunity to view and acknowledge a new and uprising piece of technology. In a sense, the prototype represented WPI well to the degree of illustrating that we are an innovative institution, coming up with new ideas not only in the areas of science and engineering, but also in the humanities and arts. A major point of attraction was the free iPod raffles. Exhibit visitors were very excited about this and many times would visit the table for this purpose only. The word got out to many other exhibit visitors which resulted in an increased attention to the kiosk. It is recommended that in future years, something similar to this be seriously considered.

The main features of the information kiosk lay-out and design that made it a success was the prime location, the clean set-up, and the iPod raffles.

Load out on Saturday, March 16th, 2008 went OK at the convention center. Members of the team were interested in packing up early, however, also wanted to keep the kiosk somewhat functional. This turned out to be a bad idea because the look corresponding to being in between these two phases of functionality made the kiosk look very unprofessional and unattractive. In future years, the decision should be made to leave it set up, or break it down entirely. This issue also led to problems with team work in breaking down the kiosk. Many members were not helping and considered it to not be their jobs. This was a bad excuse, especially considering the way the kiosk looked at the moment. The problems continued on when it came to loading the equipment into the vehicles. Only the team who was assigned to equipment was lugging materials back and forth, forcing the process to be much longer and more difficult for those select few; whereas if every member took one piece of equipment and took one trip, the process would have been much improved and much more efficient. There were also issues when it came to loading

the materials back into WPI. There were some miscommunication issues between the advisors and the lead equipment manager that resulted in a couple of unhappy professors. Regardless, it is important to note that no equipment was lost or damaged in the entire process.

Reflecting on the entire functionality of making the kiosk happen, there are many things that could be improved for upcoming years – most especially in the area of team work. The set up looked very neat and it is felt that WPI was well represented at the EACDA 2008 Convention.

Concert Assessment

Anthony DeVecchio

The concert that I attended during the 2008 Eastern American Choral Directors Association (ACDA) was performed by the jazz group Vocology. The group consists of five members, all but one from the west coast, and has been in existence for over six years. Also, at this particular performance they were accompanied by piano and drums. This concert appealed to me because it was after the exhibits and our technology kiosk had closed down for the day, and it also was more of a more mainstream type of performance. Their harmonies were amazing, they were extremely tight, and most importantly their music was fun. After taking a seat in the second row, the performance began.

Compared to what I thought most of the concerts at the ACDA convention were going to be like, Vocology was more of my style of music. I expected all of the concerts to be choirs from colleges and high schools. This performance was nothing like that. It was like going to a concert and seeing one of my favorite bands; except in this case it was highly musical and focused primarily on the voice.

They began the show with two songs that I thought were not engaging with the audience. They were fast jazz and sounded amazing, but there was no emotion or meaning to the songs. At first, I was disappointed; however, looking back at it now I know that they were just trying to start the concert with songs that showed off what they could do. Their harmonies were perfect and so was their rhythm and timing with each other. It was like listening to a person singing a skat solo and having their voice quadrupled in addition to their own with matching harmonies. At least from my perspective, there was not one mistake.

Looking at the structure of the group, I was at first surprised to see a pianist and a drummer. I was worried they would take away from the vocalists. I could not have been more wrong; the piano and drums were a great addition to the sound of Vocology. Furthermore, when the group began to sing more contemporary jazz pieces, the other four members of the group blended well with the roles of the piano and drums. They took back harmonies and

melodies much as a normal jazz group would have instrumentalists complimenting the soloist. Every member of the group had at least one solo and it was clear that they all had amazing voices and control.

In the end I was able to take a lot away from Vocology's performance. Besides being introduced to a new style of singing, and listening to professional musicians, which is something I do not get to normally do, it was an enjoyable show that only further enhanced my IQP experience.

Matthew Madden

One aspect of this IQP was for everyone to attend at least one concert during our stay in Hartford at the convention. This requirement let us experience some of the events that the convention had to offer. I believe it was beneficial for us to go a concert so that we could see the talent and entertainment that these choral directors and musicians were bringing to the convention. Out of all my tasks at the convention seeing a concert was by far the most enjoyable and fun.

At first I thought that attending a concert as a requirement would be boring and hard to sit through, but once I was there I realized how astonishing this Jazz Band Vocalogy sounded and was blown away. The jazz group was comprised of members from both the east and west coast. The musician who seemed to be the one who got everyone together was David Scott. He sang tenor and had an amazing range. The soprano whose name I do not recall also had an incredible range and could hit difficult notes effortlessly. I also like how in their set of songs they would mix it up so that everyone had a chance to solo and show their individual talents. There was also a group member who played piano and several other instruments as well as sang. The only instruments accompanying the group were piano, bass, and drums. Overall they were an exceptionally good jazz group that really entertained me and made attending the concert well worth it.

The concert requirement was a great way for all of us to relax and have some fun while listening to great music. I would recommend keeping this as a requirement for future project groups. Students should also try to see more than one concert if they have the time because there is a lot of talent at the convention that I am sure everyone can enjoy. Another improvement that could be added for the next group is to have them attend at least one interest session as well since none of us got to see one and fully experience everything the convention had to offer.

Katherine McKenna

One of the many requirements for this IQP was attendance at a minimum of one concert while at the convention in Hartford. I believe this was a useful and necessary experience. Our job was to link together music and technology and to relate it to this specific audience. What better way to get to know the crowd than to immerse ourselves in the music around us. I enjoyed this aspect of the project the most.

The first concert I attended was Vocalogy. This vocal jazz group was amazing. They brought to life incredible arrangements of classic songs, and really filled the stage and the room with their energy. The quintet has an amazing range and they blended their voices so intricately I could hardly believe it. Overall, seeing them was a wonderful experience.

The second concert I went to was Joyful Noise. This group of mentally challenged men and women blew me away. They were full of life and love that spilled into their music. The sound was unique, but more importantly, the experience was life changing. Alice Parker worked miracles with these men and women. She was so loving and patient that it brought tears to my eyes. She took time to adjust her teaching methods to suit the group dynamic and the difficulty of the song. Watching her was truly moving.

The requirement to attend at least one concert was wonderful. It forced me to take a break, sit down and enjoy some fantastic music. This requirement should not be removed because I think that would be a great disservice to the students working on this project in the future. The musical talent at a convention like this should not be taken lightly. I only wish I could have been to every concert offered.

Anthony Petrocchi

Vocalogy is a jazz vocal quintet consisting of four males and one female who, as together, bring new and exciting sounds to the world of vocal music. On the same note, it is clear that all members of *Vocalogy* have a distinct love for the art of music, and for performing. The young, good looking, jazz quintet took the stage on the second day, Thursday, February 14th, of the Eastern American Choral Directors Association at 10:00 pm. Backed by two local professional rhythm section players, each and every member of the group were very welcoming and were extremely pleased to have had the opportunity to sing for their audience in Hartford, CT.

Vocalogy started their program with a bold, straight forward jazz chart which appropriately showed off their skills while providing the audience with an astounding impression. Gerhard took lead at the piano while the other four members of *Vocalogy* sang loud and clear, proving to the audience that vocal jazz was in their blood. What was most impressive of the group's opening number was their ability to showcase their skills at jazz scatting. While a couple members were more hip than others, most especially the tenor Dave, all the artists give the audience a feeling of what they were capable of.

As a vocal quintet, consisting of four male voices and one female voice, *Vocalogy* had an interesting bite to their sound. Lead singer, and only female Christine, is a fabulous vocalist who has incredible abilities. Her technique in singing in the jazz style, while hitting extremely high pitched notes spot-on, was amazing to watch. However, it was this feature of the group that both made *Vocalogy*, and broke *Vocalogy*. While all vocalists were very in-tune with one another and the group was very tight, the fact that Christine was constantly wailing on top of her fellow male singers, singing in a spread open harmony, gave *Vocalogy* (at times) a rather monotonous sound and uninteresting flair. Christine's vocal abilities are incredible, however, attempting to sing in harmony within a group of males, did not work for the group at times. It did however; work incredibly wonderfully when Christine was featured on a slow ballad. The supporting male voices did a great job of presenting her abilities and displaying her sound.

One of the biggest hits of the night for *Vocalogy* was when they featured David Scott, who is also a vocal instructor at the Berklee College of Music in Boston, MA, on an jazzy, funky R&B chart. David's soft tone and charismatic smile truly made him suit for the groovin' chart that *Vocalogy* decided to perform. The supporting vocalists had a strong understanding of their role and did a great job of supporting David's part, and featuring his style. One of the most memorable vocal demonstrations but on throughout *Vocalogy*'s performance was David's scat solo during this feature chart. While starting off slowly, with basic syllabus and very few pitches, it was not long before David proved to us why he is a leader in modern day vocal jazz. His pronunciation abilities and stylistic knowledge was truly amazing and it was great to have seen that showcased.

As a group, *Vocalogy* had a great blend and mix of music. Their harmonic sounds were very professional and amazing; their abilities to sing at all levels of volumes was exciting to hear; and their talent to sing fast, and slow, provided their audience with a great show. Not only did the group have very talented voices, they were also all very aspiring musical writers and arrangers. The group featured an original piece written by Baritone voice and Pianist, Gerhard; and also performed a very sweet and harmonic version of Harold Arlen's & E.Y. Harburg's *Somewhere Over the Rainbow*, which was arranged by Tenor voice, David Scott. It was both unique and special to hear both of these tunes performed - not to mention that it must have surely made the artist feel proud as well.

Vocalogy's performance at the Eastern American Choral Directors Association Conference was certainly a highlight of the convention's concert series. The vocal quintet was praised by audience members as well as ACDA directors. *Vocalogy* are truly professional musicians with a love for singing. They are also very kind-hearted people with great personalities - something that could never hurt.

Shant Orchanian

The concert I attended at the American Choir Directors Association Conference in Hartford Connecticut to partially fulfill my requirements of my IQP was a Vocology concert. Vocology is a bicoastal five member group that performs vocal jazz music.

When I had first heard about the Vocology concert I did not have much interest on going I was not sure if I was going to like the type of music they sang but I was persuaded to go by others. Once we got to the concert I was amazed in the amount of people that also chose to attend this concert. As soon as they started to sing I noticed that they were different than any group I had heard before. I was completely blown away by the clarity in each of the singers voices. I was amazed how perfectly in tune each person was with each other. The first song they sang seemed to be a song that was designed to show off the groups abilities. I did not enjoy this song although parts of it captured my attention. As Vocology continued singing more contemporary vocal jazz I started to appreciate and enjoy their works.

When I heard the tenor sing I wondered where this sound was coming from. The ease at which this tenor was able sing stunned me. This was the first time that I have ever heard a professional tenor sing and I was amazed at his vocal technique. It was especially great to view his technique since I am a tenor and have been taking voice lessons for three years.

I was glad that I had gone to see the Vocology concert because it introduced me to a new type of music and allowed me to open up my mind to various music styles I would not normally listen to.

Adam Teti

The concert I Attended at the 2008 EACDA Convention was the performance of the Virtual Orchestra with the WPI Festival Choir. While not a completely a concert it was also an info session devoted to explaining the Virtual Orchestra in an academic environment. The Virtual Orchestra is a musical instrument co-designed by Frederick Bianchi professor of music at WPI and artistic director of Realtime Music Solutions. This info session was designed not to promote the virtual orchestra in a commercial light but as a rehearsal tool for choirs and musical theatre troupes.

The session began with a quick presentation by Bianchi on the formation, history, advancement, and modern repertoire. After the presentation and short round of question and answer John Delorey, conductor of the WPI Festival Choir, led the Virtual Orchestra and choir in the first movement of Carl Orff's *Carmina Burana* leading into the first section of *Dies Irae* from Verdi's *Requiem*. Being well known advanced music the selections made by Delorey and Bianchi seemed well thought and successful in showing off the prowess of the Virtual Orchestra.

A consistent and almost unending stream of questions were fired at Bianchi ranging from how the Virtual Orchestra was created to how much it would cost to rent one. Bianchi attempted to remain as far from the commercial as he could, at the request of the convention organizers, but did mention his company and rough estimate of rental cost.

Delorey's choir was well prepared to sing alongside the Virtual Orchestra both selections were difficult and they performed them with grace and ease. Delorey suggested that attending conventioners be given a chance to sing with or conduct the Virtual Orchestra and many accepted this offer. Jarrod Radcliff operated the orchestra and after the preliminary performances he invited people to come watch him work the interface. These interactions between technology and the arts seem to exemplify the meaning of Interdisciplinary Qualifying Projects.

As a whole the experience of having to attend a concert or info-session was an excellent assignment; I feel

that without it there is no way of finding out what the convention is all about. I think that if I had to do it again I would try harder to be able to stay at the convention for the whole time rather than just setup and clean up so I would have a chance to see more concerts.

Load-In/Load-Out Assessment

Adam Teti

My responsibility for the 2008 EACDA Convention was to coordinate the loading in and out of all the equipment needed for the kiosk. This included determining the necessary equipment for a successful kiosk, gathering all the equipment from sources around campus, organizing and cataloging all the equipment, and keeping detailed packing lists. Overall the loading in and out was a success nothing was lost or broken and all equipment that had to be at the convention made it to the convention. Logistically it was sub-par at best with communication breakdowns and a general lack of initiative plaguing the process.

During one meeting it was determined by the group as to what we wanted the layout of the kiosk to be. From that layout a complete equipment list was created which included all the kiosk terminals and server, the associated network, all power cords, and admissions material to have at the kiosk. After two dry runs of the kiosk the equipment list was weaned down to the essentials and a packing list was created to catalog all components that were brought down to Hartford (see Appendix for packing lists).

Gathering the necessary equipment for a successful kiosk proved to be a much harder task than it was originally thought. Attempting to gain equipment from on campus sources such as the Academic Technology Center and the PC Repair Shop proved quite unfruitful at first. The Academic Technology Center was able to lend two laptops and two projectors for use at the convention center, and after talking with the PC shop matching monitors, keyboards, and mice were acquired to give all the terminals a similar look. Professor Bianchi donated two iMac computers to be used at the convention allowing us to have both Apple and PC computers allowing conventioners to pick which one they would like to use. Network Operations donated Ethernet cables and borrowed routers and hubs completed the network setup. Any group member with power cords to spare lent them to the project for the convention and with all of this we had the equipment needed for the convention.

Packing up for the convention was very disorganized and no one who was not assigned to helping with

equipment showed any interest in helping. The cars were packed and all the equipment managed to fit in the cars that were headed to Hartford, but no record was kept as to what had been packed in what car. This could have been done better had the team lead for packing been more forceful in his requests to know what had been packed where. The drive down to Hartford went smoothly despite the driving rain finding the loading dock at the convention center proved to be a more difficult task. Once all equipment arrived it would have been more helpful had everyone helped unloading the cars, in reality about half the IQP group members did most of the work.

Once the cars were unloaded and brought into the convention center it became apparent to us that we could not gain access to the space we were supposed to be setting up in. Members of the team decided that going out to dinner at the time was a good idea because we were not going to be allowed into the space for at least one hour. This would have gone better had everyone met back at the convention center when we had agreed too instead of once again letting less people do more of the work. Once we gained access to the space the setup went smoothly and it was found that nothing had been left behind.

Load out and pack up followed along the same lines as load in, most people were sitting around chatting rather than assisting in breaking down and packing the kiosk. Most things were packed in the boxes they came to the convention in but a few things managed to get misplaced. Nothing was lost but upon arrival to WPI it was found that a few things had been packed in places that they were not supposed to be. The team did not travel back to Worcester as a whole and in this process not all items ended up back where they were supposed to despite consistent reminders from the equipment manager.

Overall I would say the load in and load out processes went mediocre at best; with blame equally distributed to the equipment manager and the rest of the team. The equipment manager should have been much more forceful in his request to get things done correctly and the team could have been much more helpful and respectful to the request of the equipment manager. The process did accomplish what it needed to nothing was lost or broken and all equipment that was needed for the convention made it to the convention.

William Lauwers

The load in load out of the computers and supplies of WPI possessions to the ACDA Convention in Hartford. was run in a way different from previous conventions. The entire kiosk was set up and running days before the convention and then packed, keeping a detailed list of all that went into each box.

As the computers, keyboards, mice, admissions materials, and cables were packed, a very detailed list of each object was kept. This took much time although the set-up of the kiosk had run quite smoothly. All boxes, bags and trunks were brought up to Johns office and locked within.

The next morning, arriving there were many students prepared to disembark for Hartford. The odd part was there was no productive activity at all during this time. Upon venturing to Johns office the few with keys to his office were found, and everything was carried down. The issue is that all of this was carried down in many trips by few. For a team which must live and work together without break for a weekend, there must be more connection.

When the cars were packed, everyone left. There was an issue with getting to the loading dock for some, and we arrived a little late. Unloading to the convention was fine. Setup went smooth without a hitch, but also with complete disregard for the system previously set up. Everything is working great well in advance of the convention.

Packing is very similar to unloading at convention center. The mentality is far that if there is nothing left at the table, then there must be nothing left behind. This is a very dangerous way to go about packing from a long very expensive weekend away from WPI. All was brought back to WPI and in just as untamed a way returned all objects to their rightful owners. I have heard no complaints since, and am convinced that all is accounted for.

In our situation all worked out without following our predetermined rules. This was a risk that worked in the end, but should not be forced by waiting too long to plan.

Conclusion

Designer's Conclusion

Gerard Dwan

The designer for the website of the American Choral Directors Association (ACDA) Eastern Division Conference Technology Kiosk has many responsibilities and plays an important part of the ACDA Conference Interactive Qualifying Project (IQP). The designer is responsible for much more than being sure that all of the information is included on the website. He is also in charge of creating all images, buttons, and general formatting of the site. He is critiqued by the rest of the IQP group to be sure that the site is as user friendly as possible. This part of the IQP is difficult, the only advice is a color scheme and the rest is up to the designer. The process is time consuming, but if it is done properly, the designer will not have to redesign the site and he will feel accomplished, as the information will be displayed in an easy to understand manner.

Now that the site looks professional and well put together, the next step is to be sure that all of the necessary information is provided on the site. This is by far the most important but difficult task in the process. Even when the designer sent out weekly e-mails asking about the content of the site, there was still information missing. In addition, some of the information that was asked for on a semi-daily basis was not turned in until the day of the initial set up. On this particular project SharePoint was implemented too late. Perhaps if had been set up earlier the group members would be in the habit of posting on SharePoint and more information would have been given.

The official Webmaster for the Easter Division Conference stopped by the Technology Kiosk and was impressed by the amount of information that we, as an IQP group, had available. The reality is that designing and maintaining a website is very difficult, because most of the crucial information does not get passed to the person in charge of the website.

In the future the web designer must be aware that contacting people on a one-to-one basis is a very

important step in making sure all information will be included. Also, making sure that WPI events are highlighted on the website to promote the IQP and other WPI projects that are happening at the conference. In addition, a tool like SharePoint is very important and should be used early in the project to ensure maximum communication.

Interactive Qualifying Projects are about learning how to function as a group. In this particular project, the designer will learn that one-on-one communication and interaction are key to success.

General Conclusions

Matthew Madden

Looking back on all the work done and the final outcome of our project I would say that we deserve an A. In my opinion our work at the convention was really great and we really seemed to impress all the exhibitors of the convention. While there may have been problems and things got very hectic right before we were supposed to leave for Hartford, we still managed to pull through and make our project a success.

Some problems that we did run into include the distribution of work. We had way too many people and not enough tasks for everyone to do. This left a few people doing almost nothing the entire time. Then there were group members who would not even do the only thing they were assigned to do making the rest of us have to pick up him or hers slack. Another problem with the work before the convention was that we did not work as one big team. There were several small groups that would meet and submit their own work and the programmer would just code based on a mix of all the groups' input. The idea of small groups sounded great, but in the end only left certain people confused with what the final project would actually be, since the work they had submitted was basically tossed aside. Another reason for this was due to the fact that people would not provide feedback on the website when asked for it. The final version of our website looked very professional. It provided a good source of information about the convention and the attractions of Hartford. There were a few things missing that may have been included had everyone given feedback on the website.

The digital choral folder presentation was a great addition to our kiosk. It gave exhibitioners a reason to stop by and spend some time talking with us and learning about what we were actually doing there. In the future there should always be at least one experiment or thing to do in order to attract more people and give them something to remember us by other than that we were a kiosk at the convention. The admissions material looked great but some of the pamphlets they gave us were not necessary. There should be information on our performing arts, admissions, and also the puzzles since there were people who stopped by that were fascinated with them. The

raffle also was a big attention grabber since a majority of the people that stopped by heard about us because of the raffle.

The slideshow for the convention was a nice addition to have, but without any real feedback from exhibitors it was hard to say whether or not it was necessary. The projector that ACDA provided us with was extremely nice and really made a difference in the visibility of the pictures on the wall. If we were forced to use ours the quality would have been a lot worse.

Overall I would have to give the final project an A and the work done each term a B. This is because I felt that the final product and the convention was a success, but our work in preparation was sloppy and unorganized.

Katherine McKenna

If I had a choice, I would give this overall project an A, but the work each term a B. The goal of this project was to show the bonds between technology and music. This goal was reached, however the path to this success was much harder than it needed to be. Communication was terrible and the team atmosphere was shaky at best until the very end. In the long run we came together and presented a successful project.

The lack of communication was extremely aggravating. Once the group began using the share point, things improved. This method, however, only works when people are willing to check it. The idea of using a share point site is wonderful, but it needs to be implemented at the very beginning of the project, and all team members need to be responsible for checking it frequently. Communication also affected the website itself. The student in charge of coding the site asked team members repeatedly to view the site and comment on any additions or changes needed. Only one or two people responded with any constructive criticism. This not only made the code writer's job more difficult, but after the convention it was determined that there were things missing, which could have been added earlier if anyone had taken the time to analyze and critique the site.

The overall dynamic was challenging. Because tasks were given to individuals, it was hard to function as a team. Some of this distance may have been caused by the lack of communication, but it was also the problem of too many leaders with no one to lead. This project should be handled by a much smaller team in the future. At the convention itself, we really came together as teammates. We evenly shared the workload and kept all lines of communication open. The kiosk was a major success, and we learned how to cooperate as a team.

Shant Orchanian

I believe the work that was done on the Interactive Qualifying Project at the American Choir Directors Association Conference at Hartford, CT deserved an A. Although there were many problems with organization, load in before the conference, and a lack of unity throughout the group, the work done at the convention site was perfect. I felt that the group worked seamlessly together manning the information kiosk.

My role in this project was to make sure that the prototype experiment ran perfectly and to manage the work done at the kiosk by the two MQP students involved in creating the prototype. This was done by attending the MQP meetings on a weekly basis before the conference and providing feedback on issues arising about performing the experiment.

If I was given the choice I would rather have three B s, one each term and an A for my Completion of Degree Requirements because I feel that it is crucial for me to make academic distinction. Although I feel that I personally completed the tasks assigned to me to the best of my abilities there were many issues that kept this group from performing at its greatest. I felt that there were many problems with the acquisition of the supplies that were going to be brought to the ACDA convention and that the list of items needed should have been given to the Academic Technology Center at WPI long before they actually were in order to give them adequate time to find the items needed.

I believe that the location of the Information Kiosk contributed greatly to the success of the project. Being right in front of the doors allowed us see every person who entered into the convention center and have a chance to talk to them. The design and layout of the information kiosk was excellent, having the WPI admissions material on the front right where the visitors walk in, having the computers on the two sides and the back being reserved for the prototype device. I feel that the prototype device was very well received and a perfect addition to our Information Kiosk. This prototype added some substance to our IQP and gave conventioners a glimpse into the future of choral sheet music.

The website was an excellent addition to our project as it worked flawlessly throughout the week even though there were some things that should have been added such as information about the Virtual Orchestra and some more information about music and technology at WPI.

Overall this project was a great success and I believe that we were able to accomplish our goal of integrating music and technology. The prototype device created gave conventioners a chance to comment on the role of technology in sheet music it enabled integration between the two fields.

Anthony Petrocchi

As an IQP (Interactive Qualifying Project), WPI's involvement as a Music Technology Team at the Eastern Division American Choral Directors Association Convention (held on 2/13/08- 2/16/08 in Hartford, CT) was a very worthwhile experience. The goal of this IQP was to incorporate music into new and innovative forms of technology, and then integrate that with everyday people and musicians. The team did a commendable job at presenting material that did exactly this and at the same time, represented themselves and WPI in a very professional and respectable manner.

One means by which music, technology, and people were integrated was through the creation and display of a website that served as the main information portal for the convention. Visitors were able to view and roam the informational website while visiting the exhibit hall. As the result of a collaborative effort, lead by the skills of a lead website designer and a professional computer science consultant, the website was very successful and very functional. The website looked great and received much applause as it should have. However, there were a few pieces of content that were missing. Unfortunately, as a result of the group's negligence to analyze the content of the previous year's website, and to relate this year's website with concurrent activities, the website lacked information regarding Professor Bianchi's Virtual Orchestra, information and material related to a student's reading session, and other WPI related information. While most of this information was not crucial in allowing the website to serve its purpose, it would have displayed the institution and all of the great things it was involved in as a part of the EACDA Convention. Including this information would have also allowed visitors to further explore these topics, allowing them to satisfy any further interest they may have had. Regardless, the key point to acknowledge is that website worked and was fully functional something that the team were all very proud of.

A second means by which the WPI Music Technology team integrated people, humanities and the arts, and technology, was through an MQP project that experimented with a prototype design of the Choral Digital Folder (CDF). While it was not expected to be a huge hit at the information kiosk, this technology experiment turned out to

be a highlight of our work. Exhibit visitors were very interested in participating in the experiment and were very excited to first hand encounter and provide input on a new, innovative piece of technology. It was very pleasing to see such a large volume of activity centered on the Choral Digital Folder experiment and it truly exemplified the unique interaction that humans have with musical technology.

A third medium through which the WPI Music Technology Team integrated music and technology was through the display and presentation of Professor Frederick Bianchi's Virtual Orchestra. While this was a separate entity of the project as a whole, it served as a strong representation of the opportunities and advantages of incorporating music into technology. The session went tremendously well and there were very little faults in its operation. The audience was very impressed and observers were not shy to ask questions with hopes of gaining a better understanding of the Virtual Orchestra. Although the session provided by Professor Bianchi and Professor Delorey went very well, there were the unfortunate notions of the presentation not being advertised well by the information kiosk mainly by not providing a link on the website to further explore this complex and amazing musical, technological system. It would have also been great to allow the entire Virtual Orchestra to be set up for an extended period time. This would have allowed more visitors to acknowledge and engage in the virtual orchestra as well as giving those who had unique interest in it a chance to satisfy their desires.

A requirement of the Music Technology Team was to attend a concert that was sponsored by the EACDA Convention. This was a worthwhile requirement that gave the students an opportunity to experience and enjoy the convention. Most importantly, it allowed them all to be exposed to all of the outstanding musical activity that the convention was centered around. Making this a requirement was the correct decision on behalf of the advisors and served as an pleasurable learning experience for the students. In future years, requiring attendance to an interest session would not be a bad idea. It will give the students another opportunity to be fully immersed in the entire convention and to gain a more in depth appreciation for music. That notion is very important to acknowledge while attempting to integrate technology into music, rather than music into technology.

As with any IQP, teamwork is the basis of a successful project. While all aspects of the project worked out from an external point of view, there were some internal issues that were not ideal. Teamwork in the beginning phases of the project was not tight and at many points, there were too many individual points of view that it was difficult to create a product that had one overall focus and standpoint. During the convention, the team members learned how to work together and magically bonded based a common mindset of let make this happen. That was certainly great to see while in Hartford, CT and as a result, the stress level was minimal. However, there were major issues involved during the last day of the convention with regards to pack up and load-out. All the members of the WPI Music Technology were relieved that all hard work the hard work they had been putting forth was coming to a close. Yet, it came to a close too quickly as only a select few members were pushing until the end to make sure the entire project was completed smoothly.

Overall, the WPI Music Technology Team did a very commendable job and impressed many, if not all, exhibit visitors with their new, unique, and innovative techniques of incorporating music into technology and integrated it with real life musicians. WPI was represented well and it is felt that the Music Technology Team left a strong, positive final impression to ACDA directors and exhibit visitors.

On a personal note, in terms of my grade for this IQP project just as with any work I attempt to do, I am striving for an A all around. I felt that I was truly a part of this IQP project and that I served the team well with my knowledge, skills, and work ethic. When asked whether I would rather receive three A's for credit and a B on the project or three B's for credit and an A on the project I would take the later. I would much rather receive an A on the project simply due to the fact that in order to graduate with distinction, an A is required on all projects completed here at WPI. Since I am currently coasting down that road of graduating with distinction, it would be devastating to me to earn three A's for credit, however, receive a B as the final grade for entire project.

Adam Teti

In conclusion the 2008 EACDA Convention was a success; the kiosk was setup on time and functioned as per the requirements of this project. However this project was plagued by a major lack of communication and an unwillingness to help with parts of the project not assigned to individuals. The team did not function well as a team but more as several individual. The load in and load out procedures were well written and planed but very poorly executed, this was caused by a lack of communication and conflicting orders between the scheduling and equipment team leaders. The scheduling team leader seemed to overstep his boundaries in an attempt to control all aspects of the project. The kiosk was well designed and implemented it served all the functions needed by the convention. The group at the convention seemed to represent WPI well and all feedback that was heard from conventioners was all positive. The location given to our kiosk was one of the best things that happened to this project. We had the prime location at the convention center no one could enter the exhibit halls without passing past our kiosk. The website contained what I would say is the bare minimum website. More information should have been included about WPI and some of the projects that we were conducting at the convention. The prototype was a good addition to the kiosk but I feel the MQP team should have been more involved with the IQP team so that we knew how each other worked and were not getting in each others way at the kiosk. Ultimately I feel this project succeeded in its requirements but was not the best at creating a team environment.

Appendix

Photos From The Convention



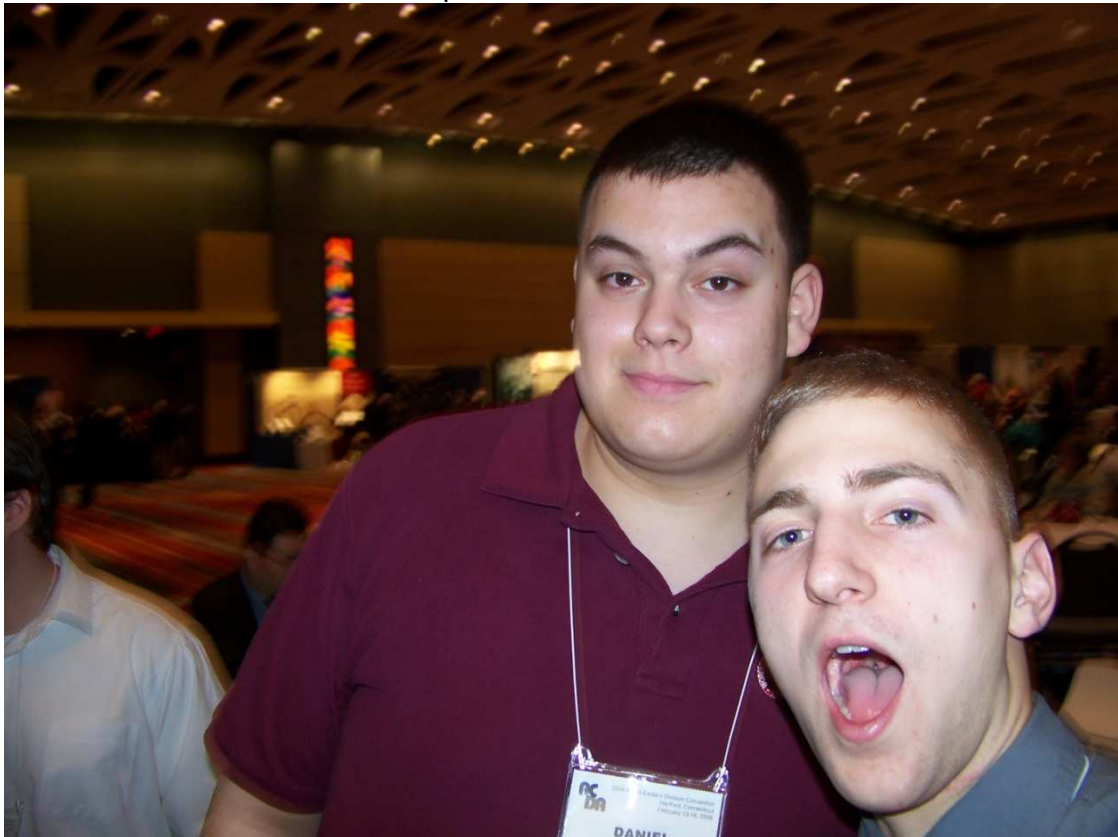
Home page of the 2008 EACDA Website; designed by the WPI Music technology Team



The 2008 WPI Eastern Division American Choral Directors Association Information Kiosk



WPI Sophomore Emilia Martini



WPI Juniors, Daniel Lettiere and Anthony DelVecchio



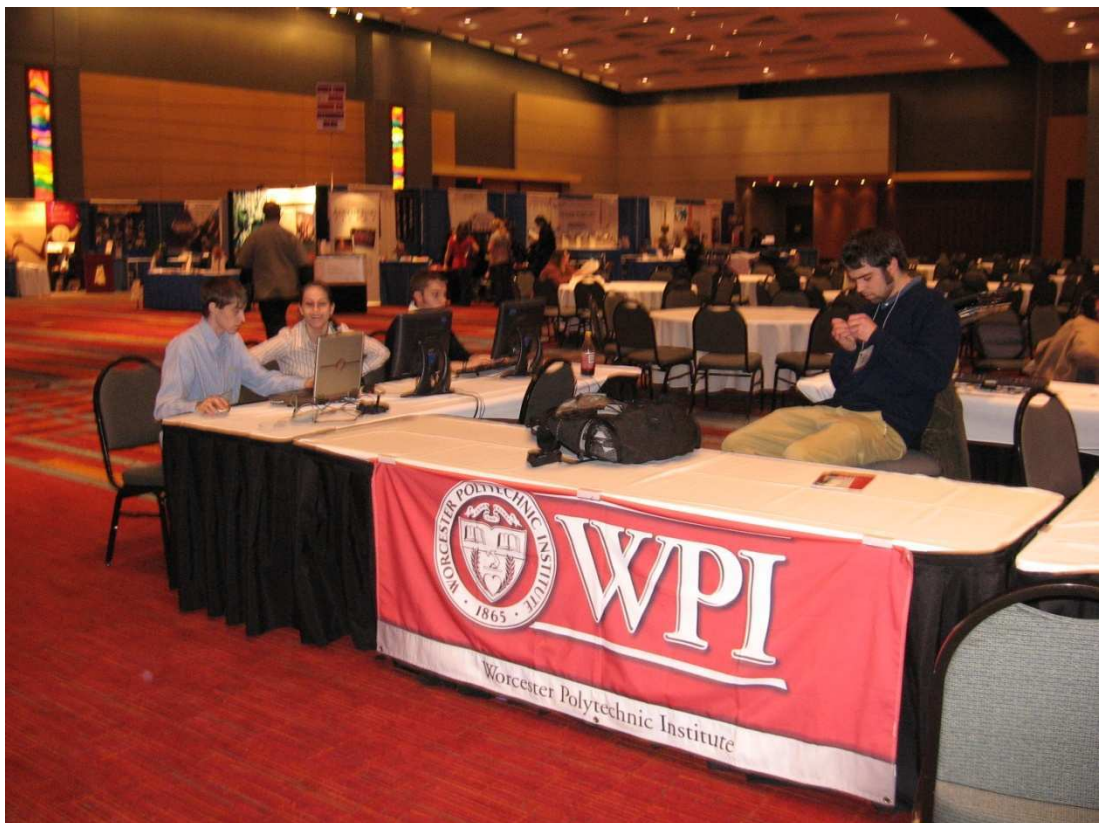
WPI Junior Anthony DelVecchio greeting exhibitors to our kiosk



WPI Junior William Lauwers setting up the WPI ACDA Hartford Information Kiosk



WPI Music Technology Team Members making sure the website is in fully functional



The WPI Music Technology Team setting up the 2008 EACDA Information Kiosk

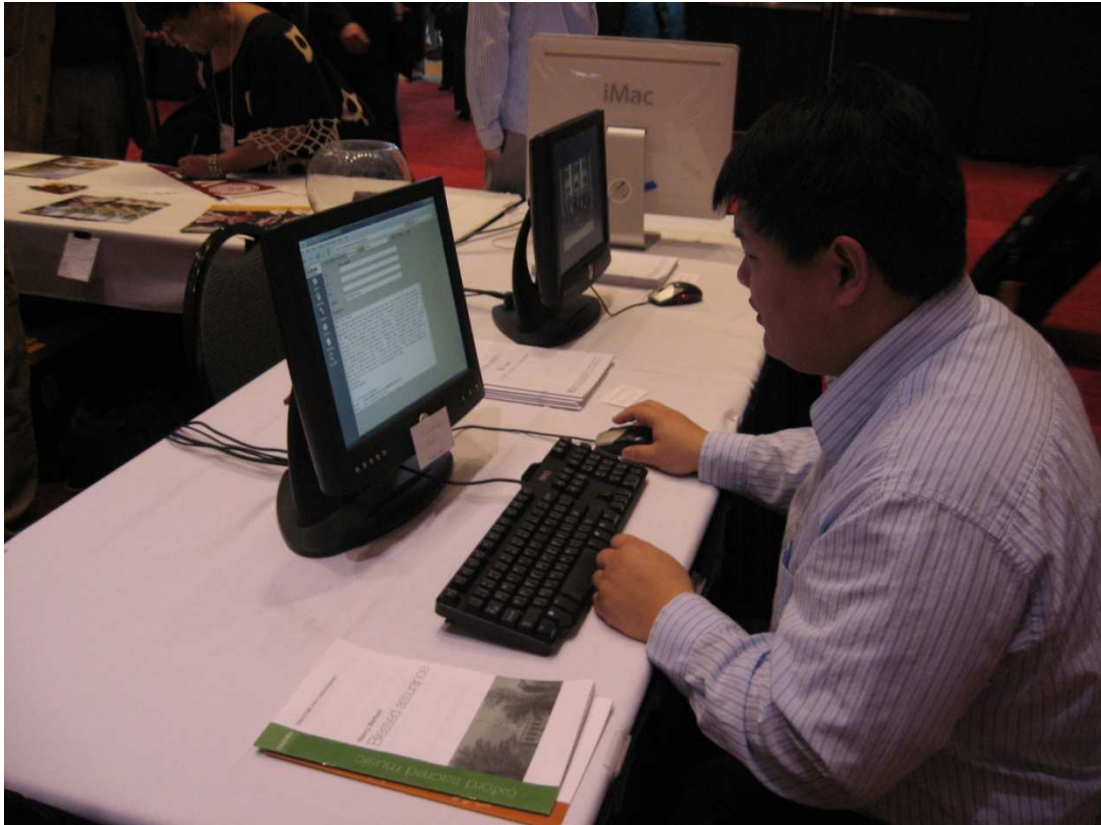


Exhibit visitor taking advantage of the free internet access made available by WPI and the Convention Center



MQP Prototype of the Choral Digital Folder (CDF)



An exhibit visitor conducting along to the music score digitally displayed on the Choral Digital Folder



An exhibit visitor participating in the MQP experimental prototype demonstration of the Choral Digital Folder (CDF)



The participant is providing WPI Technology Team Member Joe McCarthy with some productive feedback



WPI Junior Anthony Petrocchi looking ahead at the convention's schedule on the WPI EACDA Website



With help from WPI Senior, Jaime Barriga, a participant does the Choral Digital Folder demonstration



A display of WPI Interest Materials



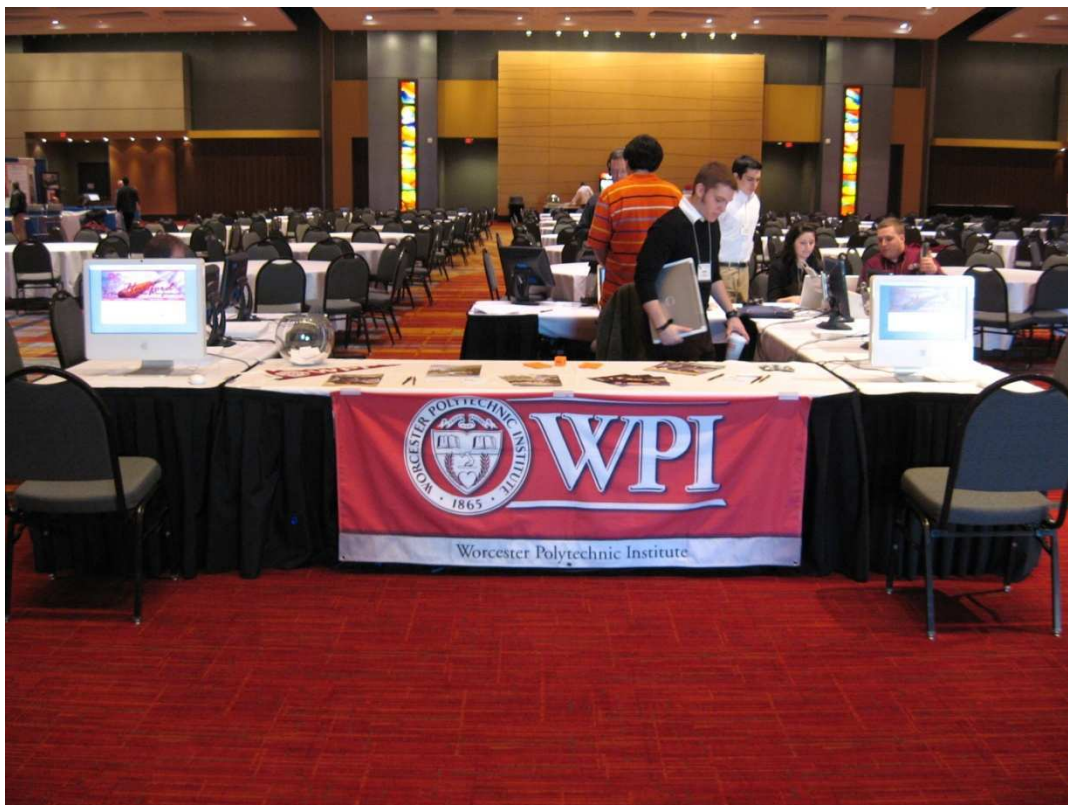
Side Angle of the 2008 WPI EACDA Information Kiosk



The WPI Music Technology Team provided a cross-platform website, functional on both a PC and a Macintosh



WPI Alum and Project Liaison Michael Kristan manages some final programming issues for the website



The WPI EACDA Information Kiosk, front and center to the entrance of the exhibit hall

ACDA Hartford

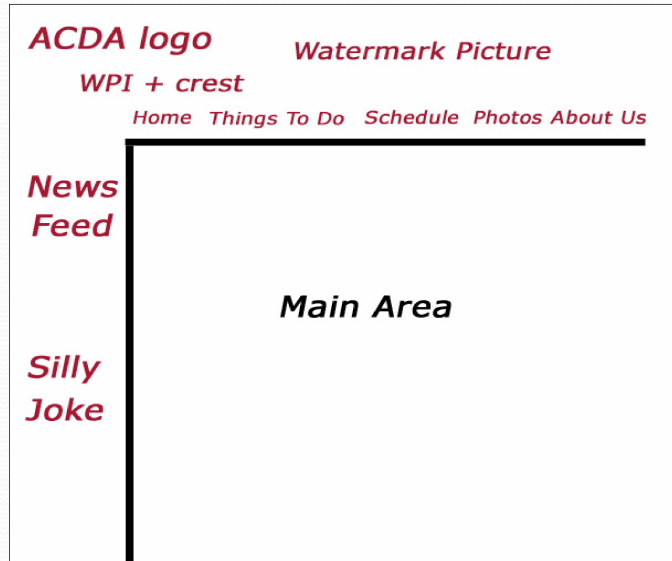
Website Proposal

The A-Team: Gerard Dwan, Katherine McKenna, Anthony Del Vecchio, Will Lauwers, and Matt Madden

Summary

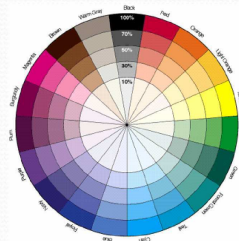
- Activities in Hartford
- Basic Design
 - Initial Design
 - Color Scheme
- Final Design
 - Links Layout
- Example Web Sites

Initial Design



Color Scheme

- Color Wheel

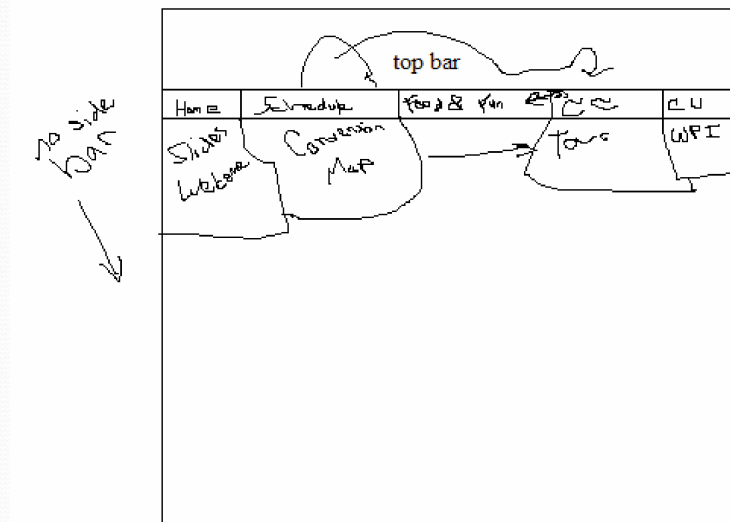


- WPI Colors



We picked this one.

Final Design



Example Websites

- Good Idea



- Bad Idea





Overview

- Activities in Hartford
- Basic Design
 - Initial Design
 - Color Scheme
- Final Design
 - Links Layout
- Example Web Sites

ACDA Eastern Division Conference Website design

Dan Lettiere
Shant Orchanian
Anthony Petrocchi
Adam Teti

Overview

- Content
 - What's in the website
- Appearance
 - How it looks
- Functionality
 - How it works

Content

What

- Maps
 - Convention Center
 - Restaurants and Bars
 - Points of Interest
- Current Information
- Pictures
- Schedule of Events

Content

Why

- Maps
 - To give the conventioners a more enjoyable stay
- Current Information
 - Allow people to know about events as they are happening
- Pictures
 - So people can see their favorite choirs
- Schedule of Events
 - Allow conventioners to plan their day

Content

How

- Maps
 - Google Maps API
 - Map of convention center overlaid with booth locations
- Current Information
 - RSS Feed
- Pictures
 - Ability for conventioneer's to submit photos
- Schedule of Events
 - Google Calendar interface

Appearance

What

- Navigation bar
- Theme
 - Colors
 - Fonts
- Content Layout

Appearance

Why

- Navigation bar
 - Ease of use
- Theme
 - Font is easily readable
 - Color scheme is gentle on the eyes
- Content Layout
 - Information is easy to find

Functionality

Why

- Cross-Platform compatibility
 - More versatile
 - So anyone can enjoy the wonderfulness that is our website on the browser of their choosing
- Easy to update and maintain
 - So that anyone can update the website on the fly
- Must conform to industry standards
 - To allow for users of any ability level to use
- No plug-in requirements
 - Allow any computer to access the site

Functionality

How

- Cross-Platform compatibility
 - PHP and HTML only
- Easy to update and maintain
 - Simple commented code
 - Documentation
- Must conform to industry standard
 - Follow W3C guidelines
- No plug-in requirements
 - Don't use flash or java

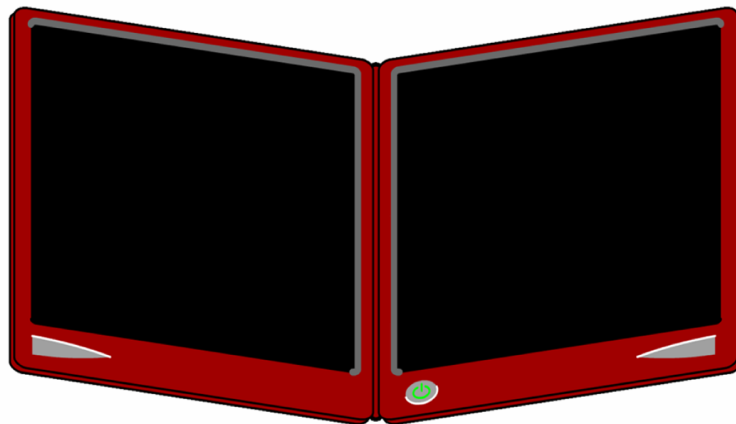
Additional Thoughts

- Firefox/Camino on ACDA computers
 - More customizable
 - Easier to restrict non-approved use
- E-mail only allowed on certain computers
- Host website locally for convention and remotely for the rest of the internet using world.

Welcome to the Prototype Demonstration



We are conducting an experiment on a prototype device that we have created to display choral music. You will be shown two different methods of page turning. We want to see which method of page turning you prefer. At the end, we would like to collect your impressions.



We will start by giving you a set of headphones which will play a passage of music and the prototype will display the corresponding choral music.



You will then sing along with the music using the buttons to advance through the pages. Then the process will be repeated using a different page turning method.



Take a few moments to familiarize yourself with the buttons.

Any questions?



For the first part of the experiment, the pages will turn as if you were turning pages in a book.

Please take a moment to observe how the pages turn.

When you are ready, please put on the headphones.



Please let us know if the volume is not to your liking.



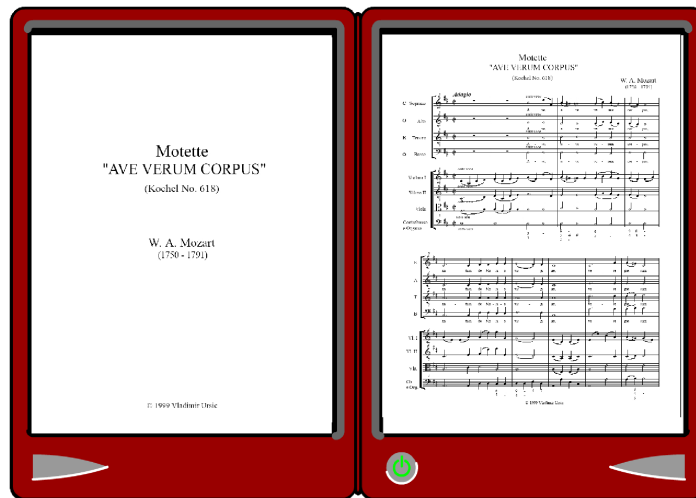
When the song is finished please remove your headphones.

For the second part of the experiment, the pages will turn one at a time.

Please take a moment to observe how the pages turn.

When you are ready, please put on the headphones.

Please let us know if the volume is not to your liking.



When the song is finished please remove your headphones.

Thank you for participating in our experiment!

Please fill out the survey to be eligible to win an iPod Touch.



Ave Verum Corpus
Motet K.V. 618

W. A. Mozart (1756 - 1791)

Adagio

Soprano *sotto voce* *pp*
Alto *sotto voce* *pp*
Tenor *sotto voce* *pp*
Baritone *sotto voce* *pp*

A - ve, A - ve, ve - rum cor - pus, na - tum
A - ve, A - ve, ve - rum cor - pus, na - tum
A - ve, A - ve, ve - rum cor - pus, na - tum
A - ve, A - ve, ve - rum cor - pus, na - tum

Organ

8

Sop. *p cresc.* *p*
Alto *p cresc.* *mp*
Ten. *pp cresc.* *p*
Bar. *pp cresc.* *mp*

de Ma - ri - a Vir - gi - ne, ve - re pas - sum, im - mo - la - tum in cru -
de Ma - ri - a Vir - gi - ne, ve - re pas - sum, im - mo - la - tum in
de Ma - ri - a Vir - gi - ne, ve - re pas - sum, im - mo - la - tum in
de Ma - ri - a Vir - gi - ne, ve - re pas - sum, im - mo - la - tum in

Org.

16

Sop. *pp* - ce pro ho - mi ne. *p* cu - jus la - tus

Alto cru - ce pro ho - mi ne. *pp* *p* cu - jus la - tus

Ten. cru - ce pro ho - mi ne. *pp* *p* cu - jus la - tus

Bar. cru - ce pro ho - mi ne. *pp* *p* cu - jus la - tus

Org.

24

Sop. per - fo - ra - tum un - da flu - xit et san - gui ne; *p* es - to no - bis *poco a poco cresc.*

Alto per - fo - ra - tum un - da flu - xit et san - gui ne; *p* es - to no - bis *pp poco a poco cresc.*

Ten. per - fo - ra - tum un - da flu - xit et san - gui ne; *p* es - to no - bis *pp poco a poco cresc.*

Bar. per - fo - ra - tum un - da flu - xit et san - gui ne; *p* es - to no - bis *pp poco a poco cresc.*

Org.

32 *dim.* *pp*

Sop. prae - gus ta - tum in mor - - - tis ex a - mi ne, in mor - - -

Alto prae - gus ta - tum in mor - - - tis ex a - mi ne in mor -

Ten. no - bis prae - gus ta - tum in mor - tis ex a - mi - ne in mor -

Bar. no - bis prae - gus - ta - tum in mor - tis ex - a - mi - ne in mor -

Org.

40 *pp* *rit.*

Sop. - - - tis ex a - mi ne.

Alto - - - tis ex a - mi ne.

Ten. - - - tis ex a - mi ne.

Bar. - - - tis ex a - mi ne.

Org. *rit.* *trw*