Thank you for joining us today as we showcase and celebrate the accomplishments of our students and their use of technology to support science, engineering, and mathematics.

March 14, 2009
9:00 A.M.—11:00 A.M.
Awards Ceremony 11:30 A.M.
Bryan Station High School
Lexington, Kentucky
Last Year’s Winners

Rosa Parks (left)
Primary Elementary
The Dinosaur Who Didn’t See the Meteorite Behind Him

Millcreek (right)
Intermediate Elementary
Yellow Lighthouse on the Rocks

Original Art

SCAPA (right)
Middle School
Letters Project

Lafayette (left)
High School
Shape the Future

Graphic Design
Schedule

9:00 - 10:30 - Student Presentations
9:00 - 11:00 - Robotics Exhibition
9:00 - 11:00 - Showcase
11:30 - Awards Ceremony

Food

Food is available at the concession stand located in the hallway outside of the gymnasium.

Proceeds benefit the Bryan Station High School Academy of Information Technology.

Student Created Digital Art, Interactive Content, Videos, and Technical Writing

Products were submitted and judged prior to today’s event. They are on display in the gymnasium and awards will be presented at the Awards Ceremony.
<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>9:00</td>
<td><strong>What is Winburn?</strong> : Learn about Winburn Middle School as seen through the eyes of Reeca, who is very proud of her school. She will share how they created a video about their school and the presentation will culminate in the showing of &quot;What is Winburn?&quot; There will be time for questions following the video.</td>
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<tr>
<td>9:30</td>
<td><strong>St. Louis - A Virtual Field Trip &amp; Webquest</strong> : Beata and Courtney, Jessie Clark STLP students, would like to take you on a virtual field trip to St. Louis. They will also share a student-created Webquest which is used by 8th graders who traveled to St. Louis in February.</td>
</tr>
<tr>
<td>10:05</td>
<td><strong>Madeline M. Breckinridge</strong> : Amari and Brienna would like share the STLP student-made documentary on the life and contributions of Madeline M. Breckinridge for whom their school is named.</td>
</tr>
</tbody>
</table>
The Academy of Information Technology is a 4-year program available to incoming freshmen at Bryan Station High School. With a focus on career and college-ready skills and support from the local business community, this program gives students the opportunity to explore IT skills in both elective and core classes in the areas of web design, programming, video/media, computer systems and more. The program is open to all Fayette County students. Stop by our booth and learn more about this fantastic opportunity!

Creative-image technologies / Matt Simons

Creative-image technologies provides planning and implementation of classroom technologies such as multimedia projection systems, plasma displays, Smart Board Interactive White Boards, and audio enhancement systems.

Dell / Kristen Reed

Dell and ProSys are committed to K-12 education in Fayette County Public Schools and all of Kentucky! We provide solutions around hardware, software, networking, enterprise, services, professional development and curriculum. Stop by to see and try out some of our latest products.

eInstruction / Keith Frank

eInstruction provides Intelligent Classroom components that are being used extensively throughout Fayette County Public Schools. The Classroom Performance System ("clickers"), the Interwrite Mobi and CPS Chalkboard (hand-held teacher tablets), the ExamView Assessment Suite (test-generator software), the ExamView Learning Series (Standard-aligned question banks), and the Interwrite
Guests

Dualtouch Boards (interactive whiteboards for more than one user) allow teachers to easily create and deliver dynamic lessons while assessing individual students with Standard-aligned questions. These instructional tools provide an atmosphere where Formative Assessment, Collaboration, and Dynamic Instruction combine to increase student achievement and minimize teacher workload.

Emerging Technology at UK’s College of Engineering / Dr. Bruce L. Walcott Table B-50
Technology invented at the College of Engineering at the University of Kentucky. Of particular interest is an image-based search engine. This patented technique utilizes a rapidly searchable data base which extracts key features of images which are both rotationally and size invariant. An interactive demo will be included in the exhibit.

Explorium of Lexington / Mike Gilmore Table A-13
The Explorium was created through a joint effort of concerned parents and Lexington Fayette County Government in 1990. The Explorium is located in the heart of downtown Lexington and is the only Children’s Museum in Kentucky. The mission of the Explorium is to inspire creativity and imagination. An important outlet for this creativity and imagination is the Explorium’s emphasis on science. There are exhibits that highlight the life sciences such as bugs from around the world, an equine exhibit on the horse industry, and healthy bodies. There are exhibits that focus on the properties of gravity, electricity, and light. The Explorium is a place of ‘exploration.’ Come explore with us.

KET - Kentucky Educational Television / Brian Spellman Table C-70
KET, under contract with Corporation of Public
Guests

Broadcasting /Learning Service Initiative, has created a “bundle” of related online digital learning objects centered on a topic in middle grades mathematics. Our learning objects include short videos, flash interactive, and lesson plans. We take the students on a virtual tour of interesting and sometimes quirky Kentucky landmarks, while focusing our content on scale and scaling in proportional reasoning.

**Lexmark / Tim Crabbe**

Lexmark will demonstrate how the laser printer works and provide a hands-on experience for the students to both see and touch some of the components.

**Mapping Kentucky History Project - Morehead University / Cecelia Armstrong**

The Mapping Kentucky History Project integrates the exploration of Kentucky’s Historical roadside markers with geospatial technologies and Kentucky public schools. Students, working with teachers, local historians and community members, will use geospatial technologies to map and gather information regarding Kentucky Historical Markers, thus helping to build a database of Kentucky’s historical markers that will be submitted to the United States Geological Survey to be included into their Geographical Names Information System and National Map.

**Mindtriggerz Project / Rebecca Woloch**

Jesse Higginbotham was a long-time active member of STLP at Cardinal Valley Elementary, Leestown Middle, and Paul Laurence Dunbar High School and he was widely respected participant in the global community. Jesse firmly believed that technology should be available to everyone regardless of financial means and support. He believed that technology brought the world home, and that the benefits
Guests

are educational, social and personal. In April of 2007 Jesse lost his life in an automobile accident on his way to school. In memory of Jesse, Mindtriggerz was formed as a project to place computers in the homes of elementary age youth who could not otherwise afford them. The goal is not only to give used technology a second life, but to provide the necessary training, follow-up, tech support and upgrades to youngsters who may have an as yet undiscovered talent such as Jesse’s. Students from around Fayette County assist in every aspect of the Mindtriggerz Project: from refurbishing donated computers to training youth and their families. Jesse would be honored to know that his legacy is to shape the lives of many young people, helping them become as much a positive contributor to the local and global community as he was.
http://www.jessehigginbotham.com/mindtriggerz.html

Newton’s Attic / Bill Cloyd

Stop by to drive an electronic robotic rover that has a robotic arm on the front that is operable from the passenger seat. Test your skill at picking up various objects with the robotic arm. Believing that the pursuit of scientific understanding is essential to the development of a technologically advanced society from which we, our children, and the world will benefit, Newton’s Attic challenges young people with unique educational experiences that allow them to apply technical knowledge in situations that are meaningful and relevant to them.

ProSys / Scott Reed

Stop by to see and try out the Dell E-series laptop as well as the newest Mini 9 and Mini 12. ProSys and Dell work together to bring together customized IT solutions to Fayette County Public Schools and all of Kentucky.
Guests

Robotics at Georgetown College / Dr. Andrea Peach
Robotics Exhibition Room Table 102

Georgetown College is the sponsor of the Central KY Regional RCX Robotics competition on May 2 and of the Robotics Event at the STLP State conference. In addition, Dr. Andrea Peach runs a robotics camp in Georgetown each summer. Come by this booth to see some Lego robotics kits, the mat for the RCX challenge, and information about having a robotic team at your school. http://www.campbell.k12.ky.us/techresources/mercer/robotics.

Newton’s Attic
<table>
<thead>
<tr>
<th>Schools</th>
<th>Elementary</th>
<th>Middle</th>
<th>High</th>
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<tr>
<td>Arlington</td>
<td>Mary Todd</td>
<td>Beaumont</td>
<td>Agencies</td>
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<td>Ashland</td>
<td>Maxwell</td>
<td>Bryan Station</td>
<td>Bryan Station</td>
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<td>Traditional Magnet</td>
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<td>Athens-Chilesburg</td>
<td>Meadowthorpe</td>
<td>Crawford</td>
<td>Fayette Tech:</td>
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<td>Eastside</td>
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<td>B. T. Washington</td>
<td>Millcreek</td>
<td>Edythe J. Hayes</td>
<td>Fayette Tech:</td>
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<tr>
<td>Academy</td>
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<td>Southside</td>
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<td>Breckinridge</td>
<td>Northern</td>
<td>Jessie Clark</td>
<td>Henry Clay</td>
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<td>Cardinal Valley</td>
<td>Picadome</td>
<td>Leestown</td>
<td>Lafayette</td>
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<td>Cassidy</td>
<td>Rosa Parks</td>
<td>Lexington Traditional Magnet</td>
<td>M. L. King Academy</td>
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<td>Clays Mill</td>
<td>Russell Cave</td>
<td>Morton</td>
<td>P. L. Dunbar</td>
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<td>Deep Springs</td>
<td>Sandersville</td>
<td>SCAPA Bluegrass</td>
<td>Tates Creek</td>
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<td>Dixie</td>
<td>Southern</td>
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<td>Garden Springs</td>
<td>Squires</td>
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<td>Tates Creek</td>
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<td>Glendover</td>
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<td>Winburn</td>
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<td>Harrison</td>
<td>Tates Creek</td>
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<td>James Lane Allen</td>
<td>William Wells Brown</td>
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<td>Julius Marks</td>
<td>Veterans Park</td>
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<td>Lansdowne</td>
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<td>Liberty</td>
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Robotics Exhibition

**Arlington Elementary**  
*Table 115*  
*Arlington LEGO Robotics*  
Students are learning about robotics using the LEGO robotics program.

**Beaumont Middle School**  
*Table 107*  
*Beaumont LEGO Robotics*  
Beaumont students are starting to explore the world of LEGO robotics!

**Booker T. Washington Academy**  
*Table 116*  
*LEGO Robotics*  
We will be demonstrating the LEGO Robotics program.

**Bryan Station Traditional Magnet School**  
*Table 121*  
*BSTMS LEGO Robotics*  
The students participated in the First LEGO League competition and will be participating the Georgetown College LEGO event in May. They have designed, constructed and programmed a LEGO robot to perform the tasks of the competitions. They have also worked to make a presentation about drought and the implications of this climate change.

**Cardinal Valley Elementary**  
*Table 108*  
*CVE LEGO Robotics*  
Students are learning about robotics using the LEGO robotics program.

**Crawford Middle School**  
*Table 113*  
*Crawford LEGO Robotics*  
This is our first year with the LEGO robots. A couple of the students have worked with them before and are rapidly bringing the other students up to speed on how to build
Robotics Exhibition

and program the robot. We are making steady progress and hope to do well in competitions later in the year.

Edyth J. Hayes Middle School

*Hayes LEGO Robotics*

Students are learning about robotics using the LEGO robotics program and will be competing at Georgetown College on May 2.

Fayette Technical - Eastside Center

*Robotics*

Students build and program robotic arms.

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**Fayette County Public Schools**

*Videoconferencing - Robotics Exhibition Station*

Watch and communicate with students in the STEM Fair showcase room through Videoconferencing! Share with others what you are seeing and learning at the Robotics Exhibition.
Fayette County Publics Schools

**FCPS Robotics**
Are you interested in robotics? Stop by this table to find information about FIRST LEGO League Robotics Competitions and the Kentucky STLP Robotics Competition and how to get a team together at your school. While you are here, take time to walk around the Robotics Expo and visit teams that are competing as well as other innovative robotics programs in Fayette County.

Georgetown College

**Robotics with Dr. Andrea Peach**
Georgetown College is the sponsor of the Central KY Regional RCX Robotics competition on May 2 and of the Robotics Event at the STLP State conference on May 21. In addition, Dr. Andrea Peach runs a robotics camp in Georgetown each summer. Come by this booth to see some Lego robotics kits, the mat for the RCX challenge, and information about having a robotic team at your school.

James Lane Allen Elementary

**James Lane Allen LEGO Robotics**
The students at James Lane Allen worked on building and programming a LEGO Robot.

Jessie Clark Middle School

**Jessie Clark LEGO Robotics**
This is Jessie Clark Middle School's first year with the LEGO robots. Most of our LEGO students participated in the event last year at Stonewall Elementary School. They have done a great job helping the newcomers adapt to the program. We are really looking forward to presenting our LEGO robots at the STEM Fair.
Robotics Exhibition

**Leestown Middle School**

*Code Red*

Our robotic club started this summer. The students were introduced to building and programming LEGO's Mindstorms robots. For 2 weeks they created, problem solved, and competed in various challenges including obstacle courses, line following, staying within the line, and robot wars. This year in our robotics club we have our experienced programmers teaching the new club members. They have all started to create their own robot designs and challenges.

**Liberty Elementary**

*Liberty LEGO Hawks*

The LEGO Hawks from Liberty Elementary will be demonstrating all they've learned about designing, building, and programming our robot by participating in the FIRST LEGO League competition. The team has developed programs to move the robot around the course to complete tasks related to climate. By working as a team and exhibiting gracious professionalism the team has been able to problem-solve local climate issues and share with the school community.

**Millcreek Elementary**

*Millcreek LEGO Robotics*

This year's STLP group focused on the FIRST LEGO League Robotics regional competition that was held at the University of Kentucky in December. We were able to learn a great deal about robotics and the time we spent building and programming our robot allowed us to gain a greater understanding and knowledge of high level engineering skills. The students will also be competing in another RCX tournament at Georgetown College on May 2nd. We will compete for the opportunity to go on the state competition at Rupp...
Robotics Exhibition

Arena on May 21st.

Paul Laurence Dunbar High School  Tables 123—124

PLD Robotics

PLD is central Kentucky’s first and only high school competing in the FIRST Robotics competition: For Inspiration and Recognition of Science and Technology! This year’s regional competition will be held March 19-21 at Purdue University. PLD Robotics students will be demonstrating a "light seeking" robot. They built and programmed the robot during summer robotics "bootcamp" and 1st semester robotics sessions.

Stonewall Elementary  Table 105

PLD robot that has been shipped to Purdue for the regional competition. Good luck Paul Laurence Dunbar!
Robotics Exhibition

Stonewall LEGO Robotics
What do LEGO's, climate change and robots have to do with each other? The answer is FIRST LEGO League! Our showcase will highlight our STLP students’ research in the area of climate, our LEGO robots and programs written to complete tasks for FLL. We will also be sharing information about the next LEGO competition with a mat designed around Kentucky.

Tates Creek Middle School

TCMS Titanbots
Our Robotics Team is learning how math plays a key role in robotics (especially in programming a robot's movements) and how learning math can be easier and more fun using robots! We plan to demonstrate some examples of that during the showcase! ROBOTICS ROCKS!!! :-)

Millcreek Elementary
Showcases

Arlington Elementary School Table C-62

Arlington Eagles STLP

Students in the Arlington STLP are currently working on a website that documents the renovation of the original Arlington building. This website will allow students and the community to keep up to date on the renovation process. Students will upload digital photos, videos, and text to the website. Students are also taking pictures of Super Eagles and printing them for a school display.

Ashland Elementary School Table B-48

Extra! Extra! Hear All About It!

Our STLP has focused on getting information to our school through the morning news, newspaper, and now public service announcements. The PSAs are student created and about issues the students feel are important -- Internet safety, bullying, and random acts of kindness.

Athens-Chilesburg Elementary School Table B-49

WebRadio ACE

ACE STLP students have created a variety of podcasts. The first project had STLP students choosing their own topics which ranged from entertainment to instructional. ACE students have shown a real interest in these podcasts and want to become involved in creating more podcasts. The next step is to create podcasts on teacher requested topics and podcasts for motivation during CATS testing.

Breckinridge Elementary School Table A-21

Madeline M. Breckinridge – A Blast From the Past

Breckinridge STLP students have created a documentary on the life and contributions of Madeline M. Breckinridge, the person for which our school was named. After researching
Showcases

the topic, students dressed in costumes to act out the story line they created. The students have also been responsible for taping and editing the documentary.

**Bryan Station High School**

*Deus Ex Machina*

The purpose of this project is to construct an alternative energy source (Hydrogen Fuel Cell) that, in theory, could be used to run or provide supplemental fuel for an automobile. Hydrogen is environmentally friendly because rather than producing carbon dioxide it generates $\text{H}_2\text{O}$ as its waste product. Students started by researching the project and constructed a small scale module that served as proof of theory. They then constructed a durable working model. Finally, these students have created an online presentation that explains the product’s operations, and the construction process.

**Engineering Academy**

The Engineering Academy at Bryan Station is working on a variety of projects ranging from the construction of an airplane to the development of robotics.

**Hybrid Project**

In this project, the students compared hybrid cars to gasoline-only powered cars. The students found plenty of information that proves driving a hybrid car is not only better for the environment but also good for your wallet. The project culminated in the development of a web site that can be used to compare the total cost of ownership (TCO) of several hybrid vehicles on the market with your current automobile. Finally these students have created an online presentation that explains how hybrid vehicles can be both environmentally and economically friendly.
Showcases

Table C 64 – 65

More Than Just News
STLP in conjunction with the Information Technology Academy is running the Bryan Station High School Video Studio. The studio is producing the following projects this year: a news broadcast that runs every other school day, an hour long historical prospective video celebrating the 50th anniversary of Bryan Station High School, the 2008-2009 Bryan Station High School video yearbook, a year-in-review video for the Bryan Station High School Marching Band, along with many other educational videos. Sales from the 50th Anniversary Video, the Video Yearbook and the Band Year in Review videos will be leveraged with STLP funds, and SLC funds (Smaller Learning Community) to maintain the equipment and perpetuate operation of the studio and projects.

Bryan Station High School
Showcases

Bryan Station Traditional Magnet School  Table C-69  
*Finale Composition and Music Technology*

This showcase will demonstrate how students are able to use Finale Notepad music publishing software to compose music. Students will play some of the works they have composed, share the printed sheet music, as well as demonstrate how the software works. They will also demonstrate how to use the software to create custom MIDI ringtones for cellular phones that will be sold on a website.

Cardinal Valley Elementary School  Table C-53  
*STLP - A Year of Memories*

STLP students are working as part of a Cardinal Valley Yearbook committee. STLP students are taking and editing digital pictures, completing layouts and gathering captions for a Cardinal Valley Yearbook which will be completed in time to distribute during the last two weeks of school.

Cassidy Elementary School  Table B-33  
*Colts News Live!*

STLP students have produced a daily news show called "Colts News Live" this year. The show is filmed live with four crews that rotate each week. We prepare, produce and run the morning show ourselves. Jobs include anchor, teleprompter operator, "What's Up in the World" reporter, roving reporter, director, and camera operators. We use green screen technology and Chroma Key to show various backgrounds to highlight each story. Come by and watch some of our shows!

Clays Mill Elementary School  Table C-59  
*Learning As We Grow*

Our main project this year was to design and make mouse pads to sell to our school community (parents, staff and
Showcases

others) and to design drawstring bags for each of us. We enjoyed showing these off to our teachers and parents and especially enjoyed making extra money for more supplies! We also entered several contests this year, made personal movies, and took lots of photos.

*Crawford Middle School*  
*Table C-60*

*Crawford Morning News*

This year we have started the Crawford Morning News program to provide information each morning to the entire school. We have used the program to give daily announcements, including club news, school news and weather reports. Students also have the opportunity to submit their own video projects that can be shown on the news show. We plan to expand the program and include student produced videos about general subjects like fire drill procedures and classroom expectations. If the response is positive we plan to expand the video submissions to more entertaining videos that address problems and situations the students encounter and need to address on a daily basis.

*Deep Springs Elementary School*  
*Table A-17*

*Wake Up, Deep Springs!*

We will be showcasing our daily live morning show, “Wake Up, Deep Springs!” Come see our use of green screen and other video effects used to produce the morning show that we deliver every morning “LIVE” to our student population.

*Dixie Elementary School*  
*Table C-52*

*Dixie STLP Presents the News*

The STLP students at Dixie Elementary Magnet School produce a morning news show every single school day.
Showcases

Edythe J. Hayes

**Veterans History Project**
This year the students will again be displaying their work on the Veterans History Project. The showcase will include excerpts from audio interviews with veterans who visited our school for our Veterans Day Celebration. These podcasts will be used as a resource for students studying American history during wartime. It is important that we remember the service and sacrifice that many of these men and women have made during their military service.

Fayette County Public Schools

**Internet Safety**
Information and tips for parents, teachers and students on ways to keep yourself safe on the Internet.

**STLP Media Display**
Watch videos and digital art projects submitted by Fayette County STLP chapters! This continuous display will be running throughout the STEM Fair.

**Videoconferencing - Gym Station**
Watch and communicate with students while they work at the Robotics Exhibition through Videoconferencing! Come and see how full H.323 videoconferencing technology works, and get information on how this capability can be used in the classroom.

Fayette Technical - Eastside Campus

**SAT - The Society of Automotive Technicians**
Students fix cars to give to those in need. They use technology for diagnosing vehicle problems.
Showcases

Fayette Technical - Southside Campus

Tables C-77-78

**Shrink-A-Tech & 3D Printing**
Students will provide healthy diet information & display Graphs of Progress from the Shrink-A-Tech weight loss program. The Student will further weigh & measure height of Fair attendees and calculate their Body Mass Index BMI. (Community Service & Instructional) 3D printing students will demonstrate the 3D design process & printing an actual object designed in 3D. (Instructional & Technical)

Garden Springs Elementary

**Joining the Airwaves...GSE Radio 102.9 The Dog**
In collaboration with Paul Laurence Dunbar High School, Garden Springs STLP students are using technology to get information to the community through a short distance radio broadcast. Upcoming events, lunch menus, and commercials featuring useful reminders for parents and students help to keep folks informed. Students write, record and edit WAV files using Audacity and then upload the files that are looped using Win Amp.

Glendover Elementary

**Helping Hands at Glendover**
In the fall, students created holiday cards to send to the troops overseas. We explored a variety of programs to create our cards and, once they were complete, we mailed them to a 4th grade teacher's family friend who was serving in Iraq. In the spring, students worked in small groups to create videos and PowerPoint presentations that would be useful to show at school - from picking nutritious lunch choices to a review of playground rules. Students became familiar with using a digital camera and then used either
Showcases

Movie Maker or Microsoft PowerPoint to create their piece. Finished work will be shared with the students at school.

**Harrison Elementary**

**Student Filmmaking and the STLP Morning News Show**

Two of Harrison's STLP students have elected to do projects for the STEM Fair: 1. Describing Anti-Bullying Strategies and 2. Showing how posters are used in the classroom for instructional purposes. The students will take pictures and talk on a video explaining both of these subjects. Additionally, the group would like to feature their morning news program and the jobs that are involved with the show. All these projects are instructional and we allow the community to see what is happening at Harrison elementary with these three projects.

**Henry Clay High School**

**Henry Clay WEBCASTING**

Webcasting is the streaming of live audio and video over the Internet. With the help of a Small Learning Communities grant, the Student Technology Leadership Program funding, and iHigh.com, Henry Clay is now webcasting home sporting events. Using a laptop, mixing board, amplifier, video camera, and headset microphones, we are able to encompass several different learning experiences in each broadcast, including, but not limited to, audio production and mixing, live on-air broadcasting, videography, and sideline reporting. With all of these new capabilities students are able to gain valuable experience in the fields of broadcasting, journalism, audiovisual and production. The reach of the
Showcases

webcasting extends beyond the classroom. By broadcasting over the Internet we are able to reach thousands of students, parents, relatives, alumni, and friends worldwide connecting them with the Henry Clay family. Hopefully the benefits of webcasting won’t stop at just sporting events. With new technology we can make many school events available to those associated with and interested in Henry Clay all around the world.

**James Lane Allen Elementary**

*Video Editing & Podcasting*

The students at James Lane Allen worked on video editing and podcasting. Their goal was to produce video and audio podcasts of book talks for our school's OPAC site (Online Public Access Catalog).

**Jessie Clark Middle**

*WJCM Morning News Program*

Our STLP students have created a news team and production crew known as “The WJCM News Crew”. Each morning, this group of students sets up recording equipment and films a live broadcast of the daily announcements, current events, menu, weather, and birthdays and broadcasts through closed circuit TV to every class in the building. This has been a very positive asset to our school, as it keeps our students, faculty, and staff well informed of school events. The STLP also podcasts each broadcast daily so the parents and community can access the WJCM news program.
Showcases

Julius Marks Elementary

*JME-TV Presents: Faces From Other Places!*

JME-TV has blossomed into a full-fledged video production company, elementary-style! STLP students will be producing news reports about students in our school who are from other countries! Students being interviewed will bring native clothing, food products, etc., and share them during the interviews! These interviews will be shown on our daily newscasts throughout the year, and will be compiled onto one super duper DVD at the end of the year!

![Image of students from Julius Marks Elementary](image)

Lafayette High School

*Photomosiac, Animation, and "Artrage"ous Painting*

The STLP program at Lafayette has focused its resources this year on computer generated visual arts. We have taken a great interest in the use of Adobe's Photoshop and ImageReady as well as ArtRage 2.5. With our newest addition, the iMac, our students have been exploring the advantages of multiple operating systems as well as several freeware programs in the creation of visual arts. With pro-
Showcases

jects ranging from photomosiacs, animations, image-manipulation, digital painting, and digital collage, our students are laying a strong foundation for future endeavors in visual arts.

Lansdowne Elementary

May I Help You?

Our STLP team decided to devote this year to serving our school by solving technology problems and to help our teachers and students become more technologically savvy. To do this, the students volunteered to do service oriented projects such as cleaning computers for the staff, making PowerPoint presentations for our teachers, making review games for the after-school LEAP program, and teaching students and teachers new technology skills. We also had some students to teach their peers new skills when in the computer lab. Overall, this year’s club has been very successful in providing technical support for our school, staff and students.

Leestown Middle

STLP Print Services

The Leestown STLP program has selected entrepreneurship to be woven into all of its service projects. We stress the opportunities of small business ownership and basic principles of business such as profit, loss, cost analysis, market research, branding, etc. STLP Print Services sells business cards primarily to teachers, parents, or any adult in the school and community. Our process was to establish clear goals, a realistic timeline, implementation and execution strategies. Our students have enjoyed being part of this project and should benefit from the experience as they enter high school and the world of work.
Showcases

**Lexington Day Treatment Center**

*Reducing Underage Drinking*

Stop by to view and learn more about videos that won awards in the “Reduce Underage Drinking” contest hosted by Keep-it-Real with support from Lexington-Fayette Urban County Government. Middle and high school students will share how PowerPoint can be used to create public service announcements.

**Lexington Traditional Magnet School**

*Corporate Website Creation*

LTMS, in cooperation with a Dunbar High School student, has been contacted to produce a corporate website for a new restaurant franchise. Working with the CEO, this franchise has the potential to grow to 12,000 across North Carolina, South Carolina and Georgia.

**Liberty Elementary**

*A Look At Liberty - A Photo Tour*

Liberty just opened this year so many members of the community are curious about our new building. Our STLP decided to create a picture tour to post on our school website so that members of the community could get a glimpse inside our school and it allows prospective students the chance to see what our school is all about. The students created this presentation using a digital camera, Windows Movie Maker, and a sound recorder. This task was offered to all of the students in STLP and these four students decided to take on the task.

**Meet Liberty’s Leaders!**

Since Liberty Elementary is new this year, our STLP’ers thought it would be nice for members of the community, as well as classmates, to see some of Liberty’s Leaders in
Showcases

action. This video documents student-directed interviews of Leaders of Liberty. Viewers will also hear descriptions of their job titles and duties. This will allow prospective students and parents to see the school merely by visiting our school website. The five students who created this video tour are from primary and intermediate grades. In order to create the tour they used a digital camcorder and Windows Movie Maker.

**Martin Luther King Jr. Academy** Table A-9

**Manipulated Art**

**Used in Public Service Announcement**

Students have manipulated their original drawings using iPhoto. The manipulated photos were used in our "Stop the Violence" PSA.

**Stop the Violence**

The showcase will promote and highlight non-violence through art and video.

**Mary Todd Elementary** Table C-72

**Cookbooks at Mary Todd**

Stop by to learn how Mary Todd students worked together to produce a cookbook. Recipes were gathered from staff and students and a product will be ready to sell later this year.

**Maxwell Elementary** Table B-32

**Making Movies at Maxwell**

STLP students are learning the process of creating, editing and producing movies. While the "fun" part of the project may be the movie editing, students are actively involved in preparing and writing their own scripts. They are
Showcases

responsible for all of the background work to creating a movie in addition to using software to create "special effects." While these movies are intended mainly to get students involved in the process, it is hoped that future projects will be geared more toward instructing and benefiting other students in the school.

**Meadowthorpe Elementary**  
*"Picture This"*

Students used Adobe Photoshop Elements to enhance and modify images. After taking pictures, the images were cropped, cut, and pasted into other images before printing.

**Morton Middle School**  
*MMS Morning News*

Our showcase demonstrates how students at Morton Middle School support the entire school through providing a live news broadcast on a daily basis. The Morton Middle School Morning News program provides an avenue for clubs, organizations, teachers and administrators to present achievements as well as daily announcements.

**Northern Elementary**  
*Cool Gift Ideas*

This year Northern Elementary created and sold mouse pads to faculty and parents at Christmas time for gifts.

**Paul Laurence Dunbar High School**  
*Faces of STLP*

STLP students from Paul Laurence Dunbar High School will present a video that shows what STLP can and should be. Find out about our ongoing projects in the PLD STLP, past projects, and community outreach.
Showcases

Table B-30

**iTeam**

Students will present and explain their programming projects iSchool (a Moodle-based online classroom environment), iCommand (an automatic shutdown/startup process), iAttend (a theatre seating program) and other programming applications that started at PLD and have expanded across the district.

Table A-18

**Red + Black= Green: Reducing Our Carbon Pawprint**

The purpose of our project is to use technology to become even greener than we are right now. We have combined a variety of technological projects which includes Command Center, iElements, and Bulldog Buddies among other things. Command Center starts up and shuts down each computer remotely in order to save power and resources, while also increasing efficiency. iElements decreases the amount of paperwork used by both teachers and students. Bulldog Buddies allows for communication with the younger generation without the use of vehicles, saving time, gas, and money, while teaching kids about computers. Our goal is to encourage our school to make greener choices. We want to show that there are many ways that technology can help us achieve this goal.

Picadome Elementary

Table B-34

**Learning Technology Through the Arts**

Graphic Design - Students used software programs to create digital art and used software to manipulate digital pictures. Students provided instruction to their peers who had never used the digital camera or software before.
Showcases

**Project Rebound**  
*Creating Lasting Memories*
Our students created a video memory for a set of twins from the community who are handicapped. Our class took video that had been shot of a hunting excursion in which these two young men took part, and presented the finished edited video to the family for Christmas.

**Rosa Parks**  
*Digital Video Booktalks*
Students have written booktalks to recommend good books to our school community. Using the RCA Small Wonder digital camera, they have recorded their booktalks and we have linked them to our Rosa Parks Library Catalog for viewing. Our goal is to encourage students to try something new to read based on a recommendation from their peers.

**Russell Cave Elementary**  
*Mustang Pride Buttons*
Fifth grade STLP students wanted to help raise money for their end-of-the-year field trip. Students surveyed the student population to find out what kind of button students would most likely buy and used this data in their button creation. "Mustang Pride" was the winner. The students worked to design, cut, assemble, advertise, and sell the buttons to the rest of the student body. The profits will be split between the STLP and 5th grade class.

**Russell Cave Recyclers**
STLP students solicit businesses and other students within the school building to donate old cell phones and toner cartridges. These cartridges are then packaged and sent to a recycling company where points are earned per phone/
Showcases

cartridge. This year the STLP students are working to earn enough points to "buy" each student their own personal flash drive.

**Sandersville Elementary**  
*Technology at Sandersville*
We will be showcasing some of the technologies that are available at our new school and how our students take part in helping the staff use them. We will also have some examples of student products that have been made throughout the year.

**SCAPA at Bluegrass**  
*Get Graphic*
SCAPA students will explain the making of a PSA video about recycling and a video about SCAPA. They will also be showing the ID badges created for the school faculty using Photoshop.

**Southern Elementary**  
*Heat Pressed T-Shirts*
The students will showcase various heat press designed t-shirts that have been created by computer software to sell within the school to teachers and students.

**Southern Middle School**  
*Manipulated Photos*
The 8th Grade art classes used digital cameras and computers to create some very unique images. Some of the software used in this project included GIMP and Photoshop.

**The Art in Video Games**
The Southern Middle School STLP project is a series of video games created using Games Factory 2. We wanted the
games to be fun, but also to show that core content from music and art are an essential part of any video game. A quiz given after each game will ask questions about color, timbre, contrast, and tempo, to help the player make that connection.

**Squires Elementary**

*Sneak Peek at Squires*

Squires STLP students created a virtual tour of the school. This virtual tour is posted on the Squires website. Students used a variety of cameras to photograph staff, activities, etc. around our school and then used programs such as Movie Maker and PowerPoint to create the virtual tour.

**Tates Creek Elementary**

*Technology at TCE!*

TCE has two STLP teams. The fifth grade team is in charge of the TCE News show. They plan, produce and edit a weekly news program that is shown to the entire school. Third and fourth grade students are creating opportunities to engage in Arts and Humanities content throughout the day. Using Windows Movie Maker, students create visual/audio questions that are presented on the morning news show and flashback-like questions are posted throughout the building.

**Tates Creek High School**

*The Computer Desktop via Nintendo’s Wiimote*

The virtual partnering between Nintendo’s Wiimote and Abode’s Flash ActionScript language brings the power of the Wiimote to the computer desktop. One can interact with a desktop application via the Wiimote in place of an ordinary mouse. Therefore, programs can be molded to
incorporate the Wiimote’s built in accelerometer to provide new ways of interacting with desktop applications.

**Tates Creek Middle School**

*Art and T-Shirts*

The TCMS STLP will be displaying some of our digital art. This is our first year working with Photoshop and USB tablets, but we have had a great time creating our masterpieces. We are also continuing our T-shirt company with some new designs for '09.

**Veterans Park Elementary**

*WVPE: Veterans Park Morning Show*

WVPE is a daily morning news show completely written, filmed, edited, and produced by a group of 20 4th and 5th graders at Veterans Park Elementary School. This 5 - 10 minute program is shown every morning and includes such features as Voices in the Hall, Meet Someone New, R&R Movie Reviews, Classroom Spotlight, VPE Pets, The Principal’s Show, Crazy Cooking, Sports, Word of the Day, Eco-tip, Did You Know?, The Pledge of Allegiance, daily song, and many others.

**William Wells Brown Elementary**

*William Wells Brown News Show*

Students will share a video closed circuit news show developed by the Brown Arts Day classes.

**Winburn Middle School**

*Winburn GPS Historical Markers*

Students have learned how to obtain the GPS coordinates for historical markers in Fayette County. Information will be used for the Mapping Kentucky History Project.
Showcases

Table A-27

**Winburn Music Library**
Students have helped the Music teacher at our school create a database of her music library to help with organization.

Table C-67

**Winburn T-Shirt and Mouse Pad Design**
Students have designed t-shirts and mouse pads using Hanes T-Shirt Maker, transfers and a heat press and have sold these throughout the school.

Yates Elementary

**Yates Address Labels**
Yates STLP students created and sold address labels using Printshop software. Money generated from the labels help purchase additional equipment for the school.

**Yates GPS Project**
Yates STLP students are Participating in a GPS Mapping Kentucky History Project. Students have worked with the GPS to locate objects and different elevations on the Yates property. They will also travel into the community to identify the absolute location of historical markers in Lexington.
STLP Mission

The mission of the Student Technology Leadership Program (STLP) is to advance individual capabilities; to motivate all students; and to create leadership opportunities through the use of technology.

STLP Goals

Goal 1. The STLP will develop activities which enhance the academic, social and emotional growth of the student.

Goal 2. The STLP will provide leadership opportunities for all students.

Goal 3. The STLP will participate in multi-age collaboration by forming innovative learning partnerships.

Goal 4. The STLP will form learning partnerships among students with different technology skills.

Goal 5. The STLP will develop activities which benefit communities.

Goal 6. The STLP will develop instructional activities which integrate technology and benefit the school and support KETS (Kentucky Education Technology System).
The Office of Instructional Technology would like to offer special thanks to all the students, parents, teachers, staff members, Kentucky Department of Education, businesses, community organizations, and vendors who have made this day possible.

We would also like to say a special thank you to Bryan Station High School’s Amy Johns, Brett Owens, Ian Gainey, and their Student Technology Leaders for all their support and expertise. We could not have done it without you!

Thank you for joining us today as we celebrate the use of science, technology, engineering, and mathematics in the Fayette County Public Schools!!!!
Last Year’s Winners

James Lane Allen (left)
Intermediate Elementary
That’s Some Cold Water

Original Photo

Winburn Middle (below)
Middle School
Spirit of Winburn

Picadome (above)
Primary Elementary
Self Portrait

Manipulated Photo

Julius Marks
(left)
Intermediate Elementary
Go JME
Jaquars!
Thanks to our Guests