

# Welcome!

The webinar will begin at 2:00 Eastern/11:00 Pacific

# **Audio Tips**

Today's audio is streaming to your computer's speakers or headphones.

Too loud or soft? Adjust volume level in the Audio broadcast box:



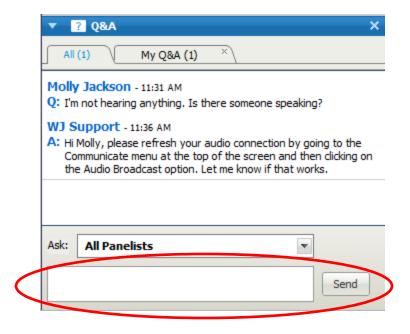
Lost all sound? Hear an echo? Click on the small radio tower icon (above chat box) OR go to the Communicate menu (at the top of the screen) and select Audio Broadcast to refresh your connection.





# Need Help?

Please post **technical support questions** into the **Q&A Panel**.



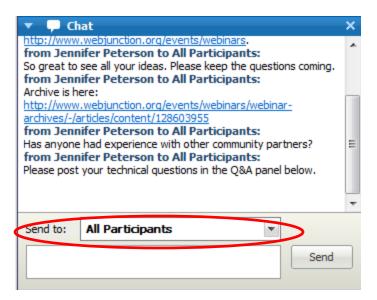
Step 1: Type the problem in the dialog box.

Step 2: Click Send.

# **Chat Etiquette**

Use **Chat** to talk with attendees and presenters about the topic.

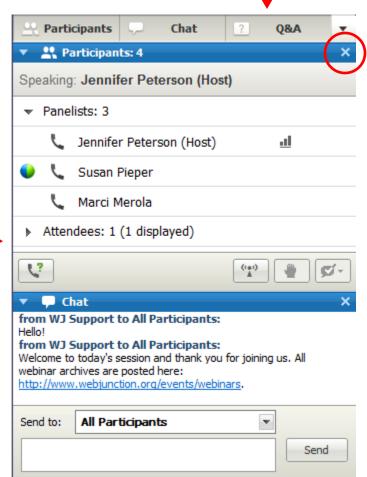
Do not post technical questions to Chat.



# Customize your experience

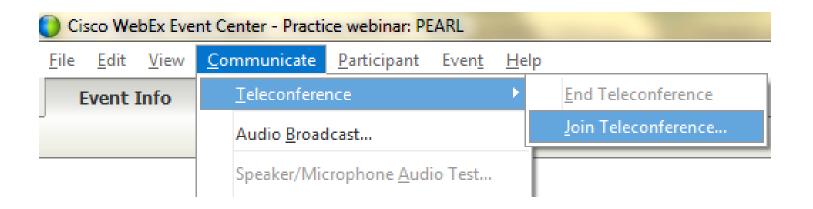
Panels can be opened or closed by clicking on the panel name at the top of the column, or by using the X in the individual panel.

Hover over edge of panels to drag and resize.



# **Telephone Access**

If you not able to listen via your computer, you may join by phone.



Step 1: At top left corner, select

Communicate > Teleconference > Join Teleconference.

Step 2: Call the toll-free number provided.

Step 3: Enter the Access Code provided.



Other Technical problems?

Contact WebEx support

Event Number: 712 023 869

Phone: 1-866-229-3239



Co-Produced by:

Jennifer Peterson

WebJunction

Community Manager

Co-Produced by: **Betha Gutsche**WebJunction

Programs Manager



# **Stay Informed**

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### **Events**

webjunction.org/calendar



Thanks to the generous support of the following state library agencies, WebJunction offers webinar programs for free to all who wish to attend:

Florida Department of State's Division of
Library and Information Services
Idaho Commission for Libraries
Illinois State Library
Indiana State Library
Maine State Library
Minnesota State Library Agency & Minitex
Mississippi Library Commission

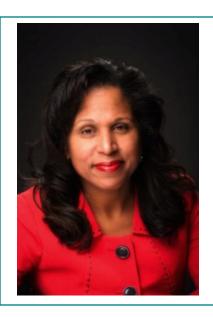
Montana State Library
State Library of North Carolina
State Library of Ohio
Access Pennsylvania
Texas State Library & Archives Commission
Library of Virginia
Washington State Library

And to the **Bill & Melinda Gates Foundation** for their continued support of WebJunction.

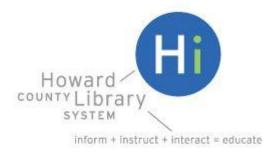


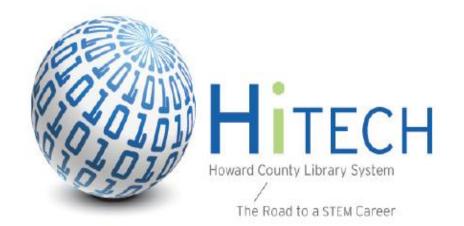


# Today's Presenter



Angela Brade
Chief Operating Officer,
Support Services, Howard
County Library System,
Maryland





# Where Teens and Technology Meet:

Engaging teens with digital media



## Today's Agenda



inform + instruct + interact = educate

- Creation of HiTech
- Focus: Curriculum
- Youth Response:
   What Seems to Work

#### Learnina

Howard County Library System, MD HiTech: The Road to a STEM Career holibrary.org



Howard County Library System's HiTech digital media lab is designed to open doors and opportunities to the region's teens. HiTech delivers cutting-edge science, technology, engineering and math (STEM) education using hands-on technology projects, experiential learning and peer-to-peer communications. Envisioned as a launching point for the STEM career pipeline, HiTech focuses on producing the next generation of scientists, mathematicians and engineers to meet the needs of the region's highly-skilled job market. The curriculum includes both self-paced and structured learning opportunities divided into four modules that emphasize interaction, improvisation, invention and instruction. The HiTech Academy component focuses on teens who are interested in pursuing higher education in science, technology, engineering or math by providing instruction, site visits to STEM work environments and attendance at college-sponsored STEM sites.

2013 Top I



Since Hilfech's launch, more than 2,000 teens have participated in a wide range of classes, created a mobile game that was released in 2013 and has been downloaded 5,000 times around the world, and worked on the library's Choose Civility e-book featuring their own stories and photos.





Inspiring Libraries, Transforming Communitie



### Creation of HiTech



- ✓ January 2012: Awarded grant from IMLS and MacArthur Foundation
- ✓ January March 2012:Planning and youth forums
- ✓ April May 2012:Acquisition and space design
- ✓ June 2012: Open the Doors!





### **Creation of HiTech**



- Vision and Mission
- Asked Youth for Input Listened
- Internal Brainstorming
- Designated Space
- > Established Goals and Timelines
- Clear on Our Competencies







Envisioned as a *launching point for the STEM career pipeline*, HiTech focuses on producing the next generation of scientists, mathematicians, technologists, and engineers needed in the community and nationwide.

Interact + Improvise + Invent + Instruct

Leveraging the best technology, teaching tools, and experts to deliver a topquality STEM education experience, HiTech incorporates an innovative methodology that blends instruction with experiential learning and peer to peer communications.



### **Creation and Foundation of HiTech**











### SELF-DIRECTED EDUCATION

▶ Books, etc.

▶ E-resources



Interact Improvise

#### RESEARCH ASSISTANCE & INSTRUCTION

▶Individual
▶Group



Invent Instruct

# INSTRUCTIVE & ENLIGHTENING EXPERIENCES

→ Community/Cultural Center

▶ Signature Initiatives

▶ Partnerships



Forums EXPO





# Creation of HiTech -Jan/Feb 2012 Youth Forum(s)



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Attendees: 55

#### **Advertisement:**

In Branch Teen Instructor



**ALL** teens are interested in a variety of educational opportunities





# Creation of HiTech Forum – *Youth Responses*

Total



100%

inform + instruct + interact = educate 1. What do you expect to get from coming to the digital media lab? Text Response 2. What software or hardware would you like to have available at the Learning how to use the internet better. digital media lab? Food, gaming(programing, crating, playing) learn to make a film Information on different plans 7. Please rate you INTEREST in the topics discussed today, where 1 is Apple a brand new experience and to learn new technological skills that PC. apple about the technology. "not at all interested" and 5 is "very interested" in the topic. garade band I believe I will find myself immersed in a positive and constructive understanding of digital media technology. Question 1: Not at 5: Very Responses i would learn about new thing Interested all 3. What projects or ideas you would like to work on in the digital games, learning and anything Interested media lab? I expect that it will teach me Digital 6 12 4.00 I expect to get a place where Media I expect to learn to more abo International Text Response 11 13 3.11 Learn more about the media Exchange a dreamworks film Laptops, Computers just for t Digital Music How to design a website and how to create a program. i exxcpect that we will be able 2 4 13 26 45 4.40 programming, music production Multimedia An experience shun. Production making movies I want something for youths t 2 10 23 4.09 Gaming design, technology rules of how to use it I want to be able to expand m 2.96 13. What suggestions do you have to help make the next Youth I would except a place to lear Constructing web sites and games. Forum better? Is there anything we should do differently? express ourselves. maybe to make an android app I expect to learn how to do co Text Response how to make games how to make my own website how to learn how to play an instrume how to dance better (break dancing) I do garage band I would like to work on making 5. Are you: how to make a game making beats or movie produ Answer Response % gaming more digital resource 1 Male 26 57% Developing Music, work on h Female 20 43% reports, essays, research, (sc



# Creation of HiTech-Youth Forum Howard

Topics, Vision, & Mission



#### **International Exchange**

**Networking with Other Youths** Youth in Other Countries International Digital Learning **International Languages** More.....



#### **Digital Media**

Internet Collaboration Website Design **E-Publications** More....



#### Games

Play Logic/Design/Build More....

#### <u>Purpose</u> Youth

**Authors/Evaluators/Creators** 

### **Mobile Book Collections**

Mobile Apps Mobile Books More.....



#### **Digital Music & Multimedia**

**Digital Music Production Video Production** More....



### **Creation of HiTech-Youth Forum**

**Dedicated Space** 

@ Savage Branch



inform + instruct + interact = educate



Classes

Instruct 1300 sqft







Interact/Improvise 800 sqft



#### **Approximately:** 3K Sq Ft **Benefits:**

- Dedicated space in isolated area
- Large area





Interact 800 sqft





### **Creation of HiTech-Youth Forum**

**Dedicated Space** 

@ ECO Branch



Conference Room

All classes 800 sqft

**Public** Space: Study table area All, except music 900 sqft

All, except music

200 sqft



Slightly smaller – intimacy of space

Size doesn't matter

Approximately: 1,900

Sqft

#### **Benefits:**

Dedicated space - 3 location s within the branch attracts more interest.



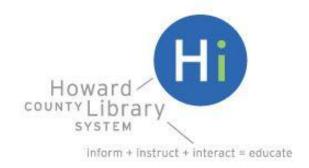




#### **Partners:**

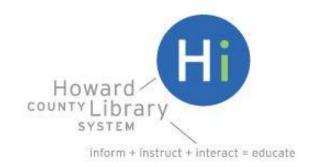
- Mindgrub Technologies
- University of Maryland Clark School of Engineering
- Howard County Public School System
- Columbia Association Sister Cities Program
- Voices for Change
- Friends of Howard County Library





# Questions and Answers Creation of HiTech





- ✓ Creation of HiTech
- ✓ Focus: Our Curriculum
- Youth Response: What Seems to Work



# Digital Music & Multimedia



inform + instruct + interact = educate







Interact

- Improvise
- Learn
- Record/Edit/Produce













- Hangout
- Interact
- Improvise Explore
- Cultivate the culture

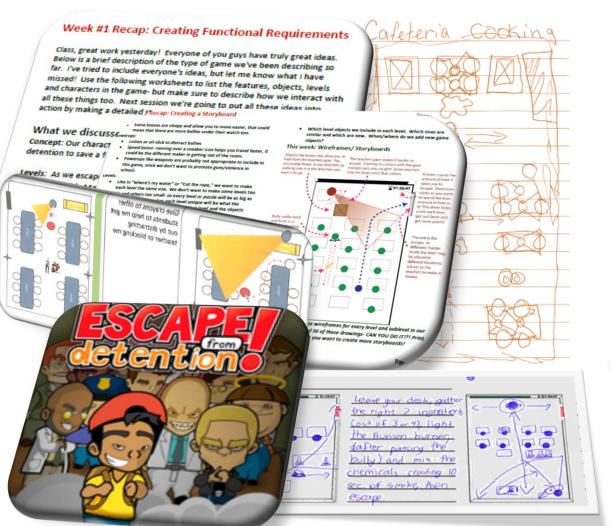






# Game Logic, Design, & Application





- Invent
- Instruct
- Create/ Design

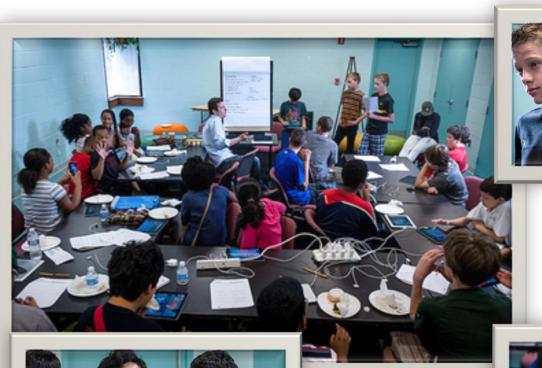








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Develop job related skills

Escape more than 6,000 downloads nationwide



# Logic, Design, & Application



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- ✓ JavaScript
- ✓ HTML
- ✓ Python
- ✓ Andrino Coding for various projects













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**Holograms** 



#### **Technology of Fashion**

#### **Digital Media**

Internet Collaboration Website Design

**E-Publications** More....



#### **Games**

- Logic/Design
- Play

TBD Build/Prog Mgt More....



**Networking with Other Youths** 

✓ Youth in Other Countries International Digital Learning **International Languages** 

More.....



#### Goal

Authors/Evaluators/ Creators



**3D Design and Animation** 

#### **Mobile Book Collections**

- Mobile Apps
- Mobile Books More.....





#### **Digital Music & Multimedia**

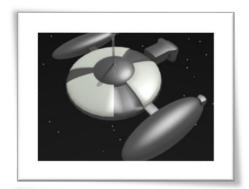
- **Digital Music Production**
- √ Video Production More....

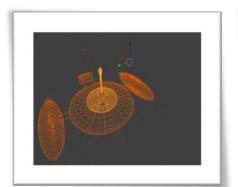


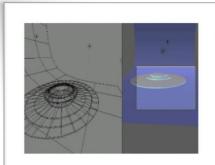


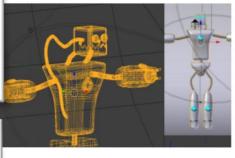




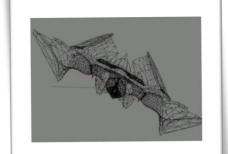


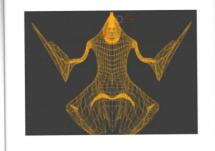


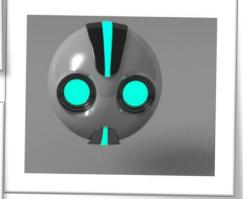


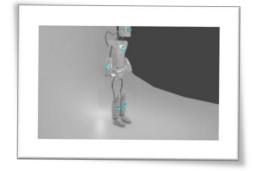


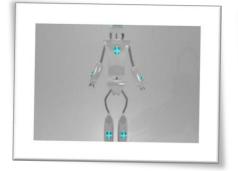


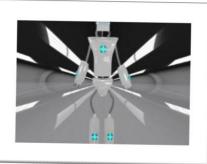














# **Technology of Fashion**











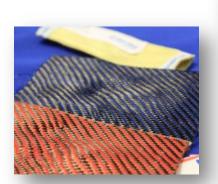








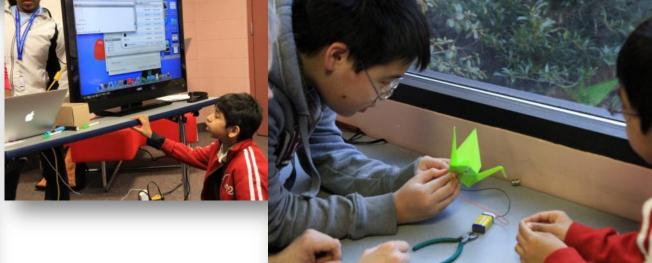
















inform + instruct + interact = educate



# Expo













# **Questions and Answers**

### **Curriculum**













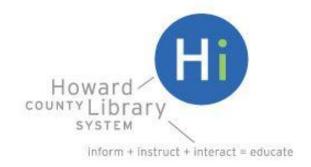












- ✓ Creation of HiTech
- ✓ Focus: Our Curriculum
- ✓ Youth Response: What Seems to Work



# **Customer Response and Work Works**



- ✓ Customer satisfaction
- ✓ Flexibility & responsiveness
- ✓ Great team of professionals who....
  - Possess capacity to embrace change
  - Think outside the box daily
  - Consistently deliver extraordinary customer service













#### **Total Number Days Open**

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2012	1	1		1	1	1	4	5	9	12	10	10	55
2013	4	14	10	15	12	8	12	3					78
Total	5	15	10	16	13	9	16	8	9	12	10	10	133

#### **Total Number of Visits By Teens (11 - 18 Years)**

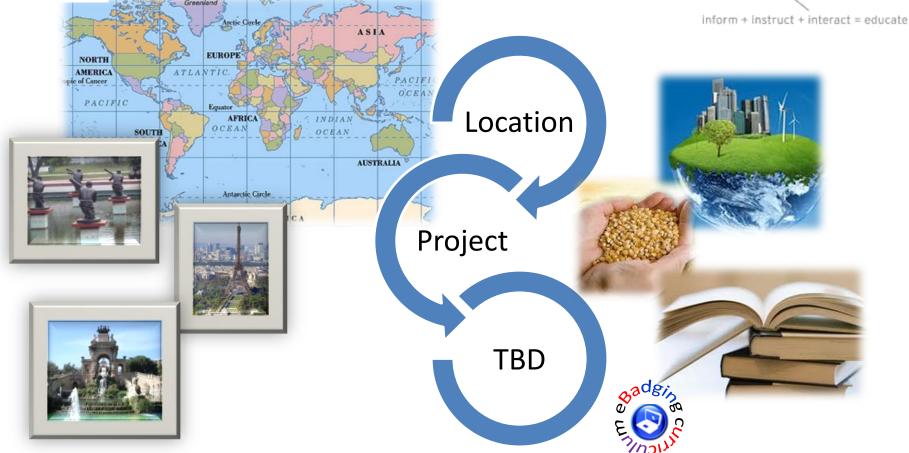
Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2012	52	41		41	44	35	137	149	206	318	177	149	1349
2013	53	227	213	396	245	215	588	94					2031
Total	105	268	213	437	289	250	725	243	206	318	177	149	3380

Based on Attendance: Primary Age Visiting HiTech is 11-15



# Flexibility - International







# Flexibility - Curriculum



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Sign In

Stories

Settings

Point of View

Conflict Type

Characters

Theme

**Plot Elements** 

Scenes

Locations

Audo Clips

Movies

4 (crisis)
3c (and escala
3b (conflict begins)
3a (problem develops)
(characters)

Read Stories In Progress

Events of the Story (Chronological)

Falling

Create A Story Character



Add picture for a story





#### CHAPTERS OF CIVILITY





#### IMPORTANCE OF CIVILITY

It's important to be respectful to people because when you are respectful to others, people will respect you. When you are respectful, you are making the right choice, and making friends will be easier because people will see you as a good person. Being respectful can make someone happy, and make you a great role model.

- Jordan



Why is it important to be Civil?

- 1. To succeed in life 2. To know how to function in life, and teach others the correct way to act.
- 3. To avoid violence
- 4. In order to be involved in your community
- 5. In order to have a great career and live your dreams

- Journée

caring therE for you



Lorem ipsum dolor sit amet, ligula suspendisse nulla pretium, rhoncus tempor placerat fermentum, enim integer ad vestibulum volutpat.

Stop the bullying stand up to it! Stop those bullies don't just stand there stand up. About 53% of teenager commit suicide of bulling. For example there was this boy that was a fun playful kid. He was nice loving and friendly. He was getting bullied he was upset but strong. B basement dead.

Now those bystan





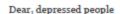
I think I know why you bully other kids. It's to stop other kids from bullying you, so you mentally and/or physically bully other kids to make yourself popular or to make older or even younger hids stop teasing you. Sometimes you bully other hids just for the fun of it, well it's not fun for the victims, parents, or their friends. There's always a bystander and those bystanders should stand up for those vertims of bullying! Then this issue would stop kids from not going to school or outside without getting em-

#### I'm My Own Bully

There are cuts and scars all over me, From stress, frustration, and just one bully. I've made it clear I'm not as happy As I was before when I knew what to be.

I want to stand out, and make a change, But there are so many things getting in the way. I've stared at the mirror, not liking the view Oh my god what am I going to do.

I feel I'm not worth it or naver good enough



When you have problems (which I guarantee everybody will have) . With





WAYS TO STOP BULLYING





CREATING A BETTER WORLD

INSPIRATIONAL MESSAGES



## **Communication and PR**



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SYSTEM

inform + instruct + interact - educate



### Class Listing

#### 3D Animation Class

Learn how to create a 3D scene using Blender. In this series, learn how to modefficiently, tackle the user interface, manipulate objects, and create textures. all eight sessions; registration required.

#### Building Renewable Energy - Part 1

Learn about renewable energy. In small teams, build a custom designed turbinactually generates electricity! Don't miss out on the fun. Ages 11-18. Registrative required.

#### <u>Create a Video Game and Participate in the National STEM</u> Video Game Challenge!

Join the HiTech Video Game Team that will learn how to design and program video games to submit to the National STEM Video Game Challenge. The HiTech Team will meet six times to prepare for the game competition. Hosted by Joan Ganz Company, IMLS, and HCLS, the competition is sponsored by entertainment software association, Microsoft, AMD, and Hive. Registration required.

#### Green Earth Technology

Learn about environmental issues and how technology and nanotechnology are used to help solve them. Collaborate with other youth in the testing of nanotechnology-based products to develop your own solutions.

#### Create A Video Game

Create a Video Game and Participate in the National STEM Video Game Challenge.



Join the HTech Video Game Team that will learn how to design and program video games to submit to the National STEM Video Game Challenge. The HiTech Team will meet six times to prepare for the game competition. Hosted by Joan Ganz Company, IMLS, and HCLS. the competition is sponsored by entertainment software association, Microsoft, AMD, and Hive. Ages 11-18. Registration required.

Apr 1 - 5 Mon - Fri 9 am - 12 pm (Ho. Co. schools closed)

HiTech is supported in part by a grant from the John D. and Catherine T. MacArthur Foundation and IMLS. Visit <a href="https://lineary.org/hitech\_events">https://lineary.org/hitech\_events</a>.

\*Registration is required. Register online or by calling 410,880,5980

#### **Music Mashup**



Create original music with your own instruments, our electronic equipment, or existing sound tracks to create a musical selection. Don't miss out on the fun! The Music MashUp group will create and record an original song. Ages 11-18. Registration required.

Apr 1 - 5 Mon - Fri 9 am - 12 pm (Ho. Co. schools closed)

HiTech is supported in part by a grant from the John D. and Catherine T. MacArthur Foundation and IMLS. Visit hclibrary.org/hitech\_events.

\*Registration is required. Register online or by calling 410.880.5980.

#### Mobile Game



Join the HiTech Mobile Game Design Team that will conceptualize and design a mobile game app, as well as create sound effects. The HiTech Team will meet seven times to create the game and sounds. The seventh session will be scheduled after the preliminary design is completed. Ages 11-18. Registration required.

Apr 1 - 5 (Mon - Fri) 9 am - 12 pm (Ho. Co. schools closed) April 25 (Thu) 9 am - 12 pm (Ho. Co. schools closed)

HiTech is supported in part by a grant from the John D. and Catherine T. MacArthur Foundation and IMLS. Visit helibrary org/hitech, events.

\*Registration is required. Register online or by calling 410.880.5980.

(1) 5-7 video game entries into National Competition

(1) Listing of tested green technologies to improve environment and listing of priority



### **Instructors and Staff**

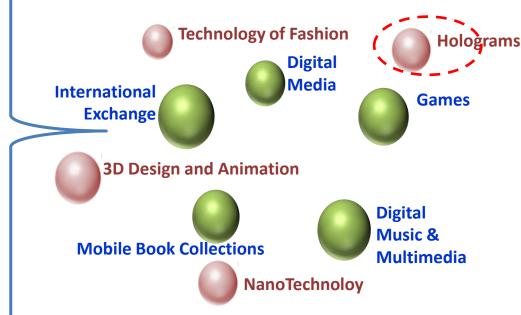


#### HiTech Team

- STEM Instructors
- Receptionist
- Support Personnel
- Interns and Volunteers
- Leverage Organizational Resources
- Leverage Partners
- Evaluation and Development Person

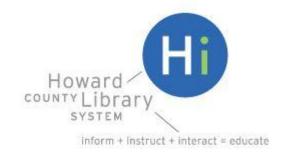
#### Instructor Qualifications

- Needed skill set
- Passionate
- History of working with youth
- Flexible
- Ability to think outside the box!









#### Where Teens and Technology Meet:

Engaging teens with digital media

#### THANK YOU FOR YOUR TIME!

#### **Links to View Students' Thoughts About HCLS' HiTech**

HCLS HiTech STEM Lab - 3D Robot Rendering http://www.youtube.com/watch?v=QyD ZgDPL1Y

HCLS HiTech STEM Lab - Nanotechnology <a href="http://www.youtube.com/watch?v=cJshQdJxnkc">http://www.youtube.com/watch?v=cJshQdJxnkc</a>

HCLS HiTech STEM Lab - Awesome! http://www.youtube.com/watch?v=6uJ3A9I2hA4

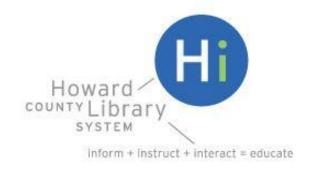
HCLS HiTech STEM - I Feel Kinda Famous http://www.youtube.com/watch?v=xmRe3 rDmVo

HCLS HiTech STEM Lab - Win a Scholarship-if the President Plays http://www.youtube.com/watch?v=jcXhB7gyJ2w

HCLS HiTech STEM - Subtly Point That Out To My Friends <a href="http://www.youtube.com/watch?v=lpMw6Ep2CSU">http://www.youtube.com/watch?v=lpMw6Ep2CSU</a>

Links are also provided on WebJunction event page





# **Questions and Answers**