

Title of Session: Science Resources K-20+ - NIA and NASA

Moderator: Jeff Cooper

Guest Speaker: Sharon Bowers

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Room: Science Resources K-20+ Group

SharonWB: Great to see everyone.

JeffC: Thanks very much for coming Sharon, and sharing with us today.

SharonWB: Thanks for inviting me.

JeffC: If we could all start with brief introductions... I'll hand the floor over to Sharon.

SharonWB: I'd love to learn more about each of you ... Clare will you begin with a brief introduction?

SharonWB: What grades do you teach ... what subjects?

BjB: I teach remedial communication in Pennsylvania and am one of the Tapped In helpdesk volunteers

ClareD: I am not teaching right now - I work on development of assessments - Science right now.

SharonWB: Assessments for ...

ClareD: provincial, national and international large-scale assessments for our province

SusanR: hi from Ottawa, Ontario..I teach on an Occasional Teacher basis and do the K to 3+ Great Resources sessions here

SharonWB: Great ..

JeffC: I'm Jeff Cooper, on Tapped In Helpdesk and I facilitate this group... though I'm not a science teacher. I'll be leaving early today to pick up my son from a forensics exhibition.

SharonWB: Angelica ... tell us a little about yourself

AngelicaL: I'm a pre-service teacher. I'm in Houston, Texas. I have been placed in a pre-k class.

CamilleL: Hi I'm an ELA/Social Studies Teachers in the Bronx.

SharonWB: That will be fun.

SharonWB: Good to meet you all.

AngelicaL: Likewise.

SharonWB: I'm a science teacher from Virginia Beach ... but I've been on loan to NASA Langley Research Center and the National Institute of Aerospace

SharonWB: I work with pre-service and in-service teachers ...

AngelicaL: how interesting!

SharonWB: developing some resources

SharonWB: and helping to organize resources that will ... hopefully ... excite students

SharonWB: to want to learn more about science, technology, engineering and math (STEM)

SharonWB: I'd like to take you to two resource rooms that I've set up ...

SharonWB: one for some resources developed at NIA

SharonWB: and one with NASA resources

SharonWB: Jeff ... will you help us go to the NIA room first

BjB: Sharon, why don't you go to that room..

SharonWB left the room.

BjB: and then we all can type /join SharonWB

BjB: start with the /

BjB . o O (/join SharonWB)

BjB: type that in the chat window

ClareD left the room.

AngelicaL left the room.

JeffC: I'll be the last to leave.

BjB nods to Jeff

BjB left the room.

Room: NIA_Grp

BjB joined the room.

SharonWB: Hello BJ ...

BjB waves howdy

AngelicaL: Hello.

SharonWB: Hope Sue and Camille come too

SharonWB: Let me tell you just a little about the National Institute of Aerospace

BjB: they're working on it, Sharon

SharonWB: or ... NIA ...

SharonWB: NIA has three goals ...

SusanR joined the room.

SharonWB: It's a non-profit group ... focusing on graduate education and research

SharonWB: Hello Sue!

SharonWB: Just filling people in a little about NIA.

JeffC joined the room.

DavidW joined the room.

SusanR: Hi Sharon

SharonWB: Hello David and Jeff.

DavidW: Hi, Sharon

JeffC waves

CamilleL joined the room.

SharonWB: Yeah ... Camille is here too.

BjB: good job, Camille

SharonWB: And ... Camille ... don't let me forget ... but I have some Spanish programs to share with you, too.

SharonWB: And ... some social studies programs.

SharonWB: So ... in a nutshell ... NIA has graduate studies in aerospace engineering and atmospheric science.

SharonWB: and runs research with NASA Langley Research Center.

SharonWB: But ... they soon realized that we need to do something to encourage students to go into science, technology, engineering and math programs.

CamilleL: thank you so much, Sharon

SharonWB: So ... we've been working on developing K-12 resources for teachers.

SharonWB: Let me take you to a few of these resources ...

AngelicaL: Wonderful. That's would we help all teachers.

SharonWB: If you go inside the room ... click on "links"

SharonWB: Let me take you to the newest addition ... Master the Science ... Master the Game

SharonWB: BJ ... is there a way to go to a website and not lose the chat?

DavidW: Yes, Sharon

BjB: yes, just enter the url in the chat

SharonWB: So ... go to .. <http://www.masterthescience.org/>

BjB checks to see if everyone go the url?

SharonWB: I'm there ... anyone else?

SharonWB: Who made it to the Pokemon site?

DavidW is there

ClareD: I'm there.

SharonWB: Great.

SusanR: yes, impressive we are ooing and awing

BjB: I'm there also

AngelicaL: me too.

SharonWB: This site piggybacks on the new Diamond and Pearl Pokemon video game.

SharonWB: In the game ... Palkia and Dialga can "warp space" and "travel through time"

SharonWB: So ... I created some standards-based lessons that deal with "time" and "space"

SharonWB: For example ... go with me to "Timekeeping By the Sun"

SharonWB: This lesson helps students see how the Sun helps tell time ... with a simple shadow stick.

SharonWB: But ... it uses Piplup (one of the Pokemon) as a "hook" for kids

SharonWB: And ... throughout the lesson ... it uses lots of great web sites and encourages teachers to use digital cameras to document the shadows

SharonWB: What do you all think?

AngelicaL: Kids like digital cameras.

SharonWB: And ... digital cameras can be great ways to document data.

SharonWB: Each of the lessons asks the students to create some technology product ...

SharonWB: a digital collage ...

SharonWB: a PowerPoint presentation

SharonWB: a Website ...

SharonWB: and then ... within the site there's a place for teachers to send me their students' best work

SharonWB : that I will post within the site

SharonWB : And ... once the lesson is completed ... we hope the teachers will ask students if they have questions about the topic

SharonWB : that they'd like to pose to NASA scientists ... NIA researchers ... or university professors

SharonWB : I'll pull together some of those questions ... find an expert ... ask the student questions ... and post the interview to the site.

SharonWB : You can see where we'll do this at the "submit" button

SharonWB : As you can see... there are 3 lessons for students in grades 3-5

DavidW : Any participants yet, Sharon?

SharonWB : and three for students in grades 6-8

SharonWB : Not yet ... the last set of lessons was posted last Friday.

DavidW nods

SharonWB : I'm excited to get some student work and questions ...

SusanR : I am engrossed

SharonWB : There are some interesting sites embedded in the lessons

SharonWB : and ... the PDF lessons are all linked ... so if you let the students use the PDF file on the computer ... they're interactive

SharonWB : If any of you have a chance to use the lessons ... I'd love some live feedback

SharonWB : Let me take you to some other resources

SharonWB : If you go to the NASA folder within the NIA room ...

SharonWB : You'll see links to some resources we've developed with NASA ...

BjB checks to see if everyone found the NASA Folder under Featured Items?

SharonWB : Please come with me to the STS-117 resources ..

<http://www.nianet.org/events/spacemissions.php>

SharonWB: Who made the jump with me?

DavidW: I'm with you

SharonWB: Great!

BjB: me too

AngelicaL: me too.

SharonWB: Super ...

SharonWB: Good ... now ... Sue and Camille?

CamilleL: you mean the Atlantis?

SusanR: yes

CamilleL: ditto

SharonWB: You'll see a variety of resources here ... the Discovery Now radio spots are 90 second audio podcasts

SharonWB: And ... at the bottom of the page you'll see "Exploration Then and Now"

SharonWB: Camille ... this is our social studies and science interdisciplinary project

SharonWB: Each of these lessons compares the challenges the Jamestown settlers faced 400 years ago

SharonWB: to the challenges we'll face when we go back to the Moon to set up lunar settlements

DavidW: Little more challenging as a settler when you have to bring your own air

SharonWB: Yes ... but ... the Jamestown settlers had some tough times, too

DavidW agrees

SharonWB: Under the Exploration Then and Now link on that page ...

SharonWB: You'll see the words ... explore, settlement, survival, and follow the water

SharonWB: Each of those is a 60-second video about the topics

SharonWB: So ... there's some interesting multi-media resources to go with the lessons

SharonWB : Within the NIA room ... you'll also find some other resources we support ...

SharonWB : But ... if you're game ... I'd like to take you to the NASA room, too

SharonWB : Is that okay?

AngelicaL : Yes.

BjB : this time you're going to have to type /join **SharonWB** Everyone ready?

SharonWB : BJ ... I'll head to the NASA room ... will you help everyone join me

BjB nods

SharonWB left the room.

BjB : type /join SharonWB

BjB : start with the /

DavidW left the room.

SusanR left the room.

AngelicaL left the room.

BjB left the room.

Room: NASA_Grp

BjB joined the room.

SharonWB : If you've never visited this site ... it's visually amazing.

DavidW : Is there still a program where students can propose a project for the Hubble, Sharon?

SharonWB : ...<http://hubblesite.org/>

SharonWB : David ... I'm not sure ...

DavidW nods

SharonWB : I have some sites listed inside the room where students can propose some

satellite images of Earth

SharonWB: I'll show you those in a minute

SharonWB: Let's go inside the room

SharonWB: Please hit "links"

SharonWB: Camille ... you'll see some Spanish resources in the middle of the list

SharonWB: Noticias NASA is targeted for students in grades 3-5.

SharonWB: At Noticias NASA, you'll find 1 minute video educational hooks ...

SharonWB: where students ask questions ...

SharonWB: and then there's a short explanation on the site ..

SharonWB: and a hands-on activity ... in Spanish

SharonWB: All of these resources are also in English at NASA KSNN

SharonWB: So ... you could cover the same material in a bilingual class

SharonWB: If you go to Acting Like Scientists

DavidW nods

SharonWB: These are links where students are encouraged to gather info ...

SharonWB: and share their findings ...

AngelicaL: Spanish, that's real awesome.

SharonWB: Yes ... the Noticias NASA and KSNN sites are great

SharonWB: And ... when you go to those sites ... there'

SharonWB: there's a special package called 21st Century Explorer

SharonWB: let me take you there ... <http://ksnn.larc.nasa.gov/21Century/indexorig.html>

SharonWB: There are 12 English and Spanish programs (same content) ALL related to encouraging students to see themselves as 21st Century explorers.

SharonWB: Hoping to excite them to want to go to the Moon ... and then to Mars

SharonWB: Each program has a 30-second video clip ... hands-on activity ... and more resources

SharonWB: This package makes a nice "after school" program

SharonWB: Some schools in Houston are using it

SharonWB: Back in the Acting Like Scientists ...

SharonWB: For example ... the Galaxy Zoo link ...

CamilleL: This is fabulous -- can't wait to share this with our Spanish-speaking student tomorrow!

SharonWB: let's students try to identify galaxies

AngelicaL: I agree, Camille.

SusanR: will share with our science teachers

SharonWB: Camille ... great news

SharonWB: And ... I'd love to hear what your colleagues think

SharonWB: Oh ... I want to take you to a new folder I added tonight ...

SharonWB: Please go to the Podcasts folder

SharonWB: With me?

DavidW nods

SharonWB: Take a look at the 21st Century Explorer Podcast Competition

SharonWB: This is our second podcast competition

DavidW: <http://www.explorationpodcast.com/>

SharonWB: Thanks David ...

DavidW: welcome, Sharon - didn't know if folks were looking around

SharonWB: This competition is open until January 2008.

SusanR: listening to the podcast

SusanR : Can Canadians become involved?

SharonWB : Oops ... the question is wrong in my room.

SusanR : ???

SharonWB : The question for this year is to determine the most significant accomplishment for NASA in the last 50 years.

SharonWB : I'll change that ...

SharonWB : This is to help honor NASA's 50th anniversary.

SharonWB : The question is correct at the actual site ... just not in my description in my room.

SharonWB : My students really like podcasts ...

SharonWB : And ... I've started including creating podcasts as a possible product for projects

SharonWB : NASA has been making more and more podcasts ...

SharonWB : In fact ... if you go to ... <http://www.nasa.gov/multimedia/podcasting/>

SharonWB : You'll see an archive of podcast opportunities ...

SharonWB : There's even a NASA room on iTunes now

AngelicaL : Itunes. So popular.

SharonWB : There are lots to choose from there ...

SharonWB : Some interesting trailers helping students understand more about the new Crew Exploration Vehicle (CEV)

SharonWB : And ... NASA's plans to return to the Moon by 2010 ... or so

SusanR : The podcasts download nicely..and timely

SharonWB : It's all pretty smooth.

SharonWB : If this is your first time in the NASA resource room ... you may want to explore some of the other resources

AngelicaL: Yes. It's a lot of information and links.

AngelicaL: Wow.

SharonWB: Just trying to organize some of the NASA resources.

SusanR: lots to digest

CamilleL: These are wonderfully done!

SharonWB: I hope you have a chance to use them.

SharonWB: And share them with your colleagues.

CamilleL: will do.

AngelicaL: ditto,

SharonWB: Super!

DavidW: Sharon, if you are going to suggest some NASA resources to teachers, is there a BETTER starting point?

SusanR: Thank you so much for sharing

DavidW: We've been to a LOT of different sites

SusanR: and in depth too

SharonWB: You can start at the NASA portal.

SharonWB: www.nasa.gov

DavidW: That's what I was hoping

DavidW smiles

SharonWB: Every day ... there is the NASA photo of the day.

SharonWB: It's fun to see the image of the day.

AngelicaL: thanks

DavidW: Thanks very much, Sharon

AngelicaL: Very informational

SharonWB : So happy to share.

SharonWB : If you need me ... sharon.bowers@nianet.org

BjB hugs Sharon. Thanks!

SharonWB : Thanks for all of your help.

SusanR hugs Sharon

SusanR : GRREAT session

SharonWB : Bye Susan.

SharonWB : Thanks!

CamilleL: and kisses too!

SharonWB : Bye BJ

AngelicaL: Bye.

BjB : if you bring in K-12 students, ask Sharon to collaborate with your class

SharonWB : Bye Camille and Angelica

SusanR : hugs and kisses everyone

SharonWB : I'd love to work with your students.

CamilleL: bye bye

AngelicaL: Bye to all.

SharonWB : Bye

SusanR : bye

BjB : then the students can enter this room and do research

BjB : and join the NIA group!

BjB waves goodnight