

**Title of Session:** Science Resources K-20 - NASA

**Moderator:** Sharon Bowers

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Room: Science Resources K-20 Group

**BjB:** do you mind if we start, Sharon?

**SharonWB:** Let's.

**BjB:** . o O ( I know you've prepared a lot of information )

**BjB:** we usually start with introductions

**BjB:** I'm an art teacher in Pennsylvania

**DavidWe:** I'm David Weksler. I am a Tapped In HelpDesk volunteer and I help teachers learn more about technology. I'm in New Jersey, near New York City

**SharonWB:** I'm a science teacher "on loan" to NASA's Center for Distance Learning --

**SharonWB:** That's at NASA Langley Research Center.

**SharonWB:** I usually teach middle school science.

**SharonWB:** The plan for tonight is to share some of our materials with you.

**SharonWB:** We develop 5 educational programs that are easily accessible through the Internet.

**SharonWB:** I am the program manager for NASA Kids' Science News Network.

**SharonWB:** <http://ksnn.larc.nasa.gov>

**DavidWe:** Who is the audience for these programs, Sharon?

**SharonWB:** NASA Kids' Science News Network is for students in grades K-5.

**DavidWe** nods

**SharonWB:** The first part for each program is a 1-minute or 30-second video newsbreak.

**SharonWB:** These can be used to "hook" the kids.

**SharonWB:** And ... some TV stations use them as PSA.

**SharonWB:** And ... they can be seen in the lobbies of Regal Cinemas.

**SharonWB:** Once you go to the website, you'll find educational resources for teachers.

**SharonWB:** There's a hands-on inquiry activity.

**SharonWB:** More resources -- books and web sites.

**SharonWB:** A quiz --

**SharonWB:** And National Standards.

**SharonWB:** Our K-2 programs use animated characters.

**SharonWB:** Ted Tunes, a singing skunk, helps his "not very smart dog/friend" Barclay understand some math and science in the world around them.

**DavidWe** smiles

**SharonWB:** The programs for grades 3-5 use students talking to students.

**BjB:** sounds really exciting, Sharon!

**SharonWB:** Recently, we auditioned students outside the Houston area to be newscasters.

**DavidWe:** How long have these web sites been up, Sharon?

**SharonWB:** It was great!

**SharonWB:** NASA KSNN is been up for nearly 4 years.

**DavidWe** nods

**SharonWB:** Some of the other programs have been around longer.

**SharonWB:** There's a "twin" program to KSNN for Spanish-speaking students.

**SusanSi** joined the room.

**SharonWB:** It's called Noticias NASA and can be found at <http://ksnnspace.larc.nasa.gov>

**SharonWB:** Hello Susan!

**SharonWB:** Glad you could join us.

**SusanSi:** hello

**DavidWe** waves to Susan

**SharonWB:** We've just started talking about some of the programs developed at NASA's Center for Distance Learning.

**BjB:** Sharon is sharing an incredible list of resources, Susan

**DavidWe:** Do you teach, Susan?

**BjB** wonders if Susan could please introduce herself

**SusanSi:** great! yes, 4th grade math & science

**DavidWe:** cool

**SharonWB:** Perfect!

**DavidWe:** Where are you in the real world, Susan?

**SharonWB:** I think I have some resources that will be helpful.

**SusanSi:** NE Texas-rural

**SharonWB:** I'm in Virginia Beach -- but work in Hampton, VA.

**SharonWB:** Susan -- I've introduced 2 of the 5 programs we create.

**SharonWB:** The first, NASA Kids' Science News Network (KSNN) is for students in grades K-5.

**SharonWB:** There's a short (30-second or 1-minute) video supported by hands-on activities.

**SharonWB:** You can find these at <http://ksnn.larc.nasa.gov>

**SharonWB:** The videos can be downloaded.

**SharonWB:** So you can pull them off the web to use as you choose.

**SharonWB:** And ... if you have any Spanish-speaking students.

**SharonWB:** We have a twin program, Noticias NASA, at <http://ksnsp.larc.nasa.gov>

**SharonWB:** We have another program for students in grades 3-5 called NASA SCI Files.

**SharonWB:** There are three components to this program.

**SharonWB:** First, there's a 60-minute video that is broken into four 15-minute segments.

**SharonWB:** You can find this at <http://scifiles.larc.nasa.gov>

**SharonWB:** This program uses "problem-based learning" as the "tree house detectives" try to solve a problem.

**SharonWB:** At the web site, you'll find an educator's guide that can be down-loaded.

**SusanSi:** sounds like fun!

**SharonWB:** And ... there's a problem-based learning interactive activity for each program.

**SharonWB:** What topics are you teaching in science now, Susan

**SusanSi:** I've started with measurement--metrics, a FOSS unit

**DavidWe . o O ( FOSS is very good stuff )**

**SusanSi:** (I taught TX History last semester)

**SharonWB:** I agree -- FOSS is good stuff.

**SharonWB:** Do you integrate any science content into the metrics unit?

**DavidWe:** Anything from the Lawrence Hall of Science is good stuff

**SusanSi:** are these videos free to download?

**SharonWB:** Yes ... everything is free.

**SharonWB:** You can stream the videos from several sites.

**SharonWB:** Knowitall.org is one

**SharonWB:** They're at Ibl.io.

**SharonWB:** And ... I'll have to check on the third site.

**SharonWB:** There's also a broadcast schedule for NASA SCI Files.

**SharonWB:** They're shown on PBS stations.

**SharonWB:** The Case of the Mysterious Material is airing now.

**SharonWB:** and .. The Case of the Wacky Water Cycle will start January 18.

**SharonWB:** A schedule can be found at the web site.

**SusanSi:** I'll check that our

**SharonWB:** If it would help, I've correlated our programs to TEKS.

**SharonWB:** If you send me your email, I can email that to you.

**SusanSi:** thank you

**SharonWB:** I'm updating my correlations -- but will send by the middle of January.

**SusanSi:** that will be fine

**SharonWB:** You can access streaming video of NASA SCI Files™ from the following sources.

**SharonWB:** Apple Learning Interchange

**SharonWB:** [http://ali.apple.com/ali\\_sites/ali/exhibits/1000849/](http://ali.apple.com/ali_sites/ali/exhibits/1000849/)

**SharonWB:** ibiblio.org

**SharonWB:** brought to you by ibiblio and University of North Carolina

**SharonWB:** [http://nasa.ibiblio.org/sci\\_files.php](http://nasa.ibiblio.org/sci_files.php)

**SharonWB:** Knowitall.org

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**SharonWB:** ibiblio.org

**SharonWB:** brought to you by ibiblio and University of North Carolina

**SharonWB:** [http://nasa.ibiblio.org/sci\\_files.php](http://nasa.ibiblio.org/sci_files.php)

**SharonWB:** Knowitall.org

**SharonWB:** brought to you by South Carolina ETV

**SharonWB:** Here are the sites for streaming our programs...

**SharonWB:** Apple Learning Interchange

**SharonWB:** [http://ali.apple.com/ali\\_sites/ali/exhibits/1000849/](http://ali.apple.com/ali_sites/ali/exhibits/1000849/)

**SharonWB:** ibiblio.org

**SharonWB:** brought to you by ibiblio and University of North Carolina

**SharonWB:** [http://nasa.ibiblio.org/sci\\_files.php](http://nasa.ibiblio.org/sci_files.php)

**SharonWB:** We produce another show for middle school students.

**SharonWB:** It's called NASA CONNECT.

**SharonWB:** For this program, we create a 30-minute video that integrates math, science, technology and NASA current research.

**SharonWB:** Susan -- some of the math in these programs can be modified for younger students.

**SharonWB:** In addition to the programs, you'll find an activity at the web site and some web challenges.

**SusanSi:** ok

**SharonWB:** You can find all of this at <http://connect.larc.nasa.gov>

**SharonWB:** NASA CONNECT is where we have some SQUEAK challenges.

**SharonWB:** Earlier, BJ and I were talking about SQUEAK.

**SharonWB:** David or Susan -- have you ever seen SQUEAK before?

**SusanSi:** no

**DavidWe:** I have not seen SQUEAK

**SharonWB:** One of my teammates introduced me to SQUEAK

**SharonWB:** and he creates SQUEAK challenges to go with our NASA CONNECT programs.

**SharonWB:** You can find out more at <http://connect.larc.nasa.gov/squeak.html>

**SharonWB:** SQUEAK is shareware that is used internationally.

**SharonWB:** One of the amazing things about SQUEAK is that it uses pictures for programming.

**SharonWB:** So ... once students see the program, they can actually re-program a challenge.

**SharonWB:** Very young children can use it.

**SharonWB:** We have a program that we create for adults, too.

**SharonWB:** It's called Destination Tomorrow.

**SharonWB:** It's a 30-minute program that also airs on PBS stations.

**SharonWB:** Oh ... NASA CONNECT is on PBS stations, too.

**SharonWB:** And you can find a schedule for NASA CONNECT at its web site, <http://connect.larc.nasa.gov>

**SharonWB:** And the schedule for Destination Tomorrow at <http://destination.larc.nasa.gov>

**SharonWB:** Have any of you used NASA materials in your teaching?

**BjB:** not I

**SharonWB:** As an art teacher, you might want to take your students to the Hubble Telescope site.

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

**DavidWe:** I'm getting sucked into the SQUEAK web site

**SharonWB:** That's great!

**SharonWB:** It's addictive.

**SharonWB:** BJ -- if you send me an address, I could send you a DVD that you might like to use with your students.

**SharonWB:** A few years ago, the VA Symphony had a special concert for "Out of This World" music.

**BjB** wishes Susan would log back in so we can tell her about the plans for a science group room in the Student Activities Center

**SharonWB:** The conductor came to NASA for images.

**SharonWB:** I have a DVD of the images and the music.

**SusanSi** joined the room.

**SharonWB:** Welcome back.

**SusanSi:** thanks

**BjB:** welcome back, Susan...wait till you hear what else Sharon has to share

**SharonWB:** We were talking about a DVD that I have to share.

**SharonWB:** It's music and images that are "Out of This World."

**SharonWB:** We matched NASA images to our VA Symphony a few years ago.

**SharonWB:** If you'd like a copy, just send me your address.

**BjB:** that sounds so cool! And perfect for my kids

**SharonWB:** They'll love it.

**SharonWB:** NASA has some other interesting sites, too.

**SharonWB:** One of my favorites is Echo the Bat.

**DavidWe:** Sure

**SharonWB:** And ... Amelia the Pigeon

**BjB** wants to see Echo the Bat

**SusanSi:** we'll be studying bats



**SharonWB:** You can find these stories at <http://imagers.gsfc.nasa.gov/echohome.html>

**SharonWB:** Echo the Bat uses "remote sensing" to find out about her world.

**SusanSi:** I just bookmarked it!

**SharonWB:** Kids love the story.

**SharonWB:** Your kids might also like "For Kids Only."

**SharonWB:** <http://kids.earth.nasa.gov>

**SharonWB:** At this site you can find out more about how NASA studies the Earth's atmosphere, waters, and lands.

**SharonWB:** Susan, do your students like Pokemon?

**SusanSi:** I haven't heard much about that lately

**SharonWB:** We've been working with Nintendo to have the "real science" behind Pokemon.

**SharonWB:** If you go to <http://ksnn.larc.nasa.gov/pokemon> you'll see what we've done.

**SharonWB:** For the last few creatures, we've added information about the "real science" behind the creature.

**SharonWB:** The last creatures were "unseen forces."

**SharonWB:** So ... we have some information about the unseen forces of flight.

**SharonWB:** And activities for those four forces.

**SharonWB:** Another site that's fun is Astroventure.

**SharonWB:** At this site, students create a "habitable" world.

**BjB** 's head is spinning

**SharonWB:** It's a chance to compare the Earth's habitat

**SharonWB:** with your imaginary habitat.

**SharonWB:** You can find this at <http://astroventure.arc.nasa.gov>

**DavidWe:** My nephew is playing a lot of "Civilization"

**SharonWB:** He might like astroventures.

**DavidWe** nods

**SharonWB:** The cool part about astroventures

**SharonWB:** is that it reinforces what we know about Earth

**SharonWB:** while encouraging students to think creatively.

**SusanSi:** for what ages is it recommended?

**SharonWB:** It's listed as upper elementary/middle school

**SharonWB:** In VA -- it fits nicely with some of our 6th grade standards.

**SharonWB:** And ... when looking for specific activities, you can go to the NASA education portal.

**SharonWB:** <http://education.nasa.gov/home/index.html>

**SharonWB:** Let me recap to be sure I've remembered what I've promised.

**SharonWB:** Susan -- I'll send you the TEK correlation for SCI Files AND a DVD for Out of This World music.

**SharonWB:** Any questions I might answer?

**BjB** hopes there is enough time to tell Susan about the plans for the student activity center?

**SharonWB:** BJ -- why don't you tell her what we're thinking.

**BjB:** Susan, Sharon and I have been collaborating on ideas to create a Science/NASA group room in the Student Campus

**BjB:** where teachers can bring their students to talk with scientists...

**BjB:** and engage in some of the resources that Sharon shared tonight

**SharonWB:** We thought this might be a way for students to share some of their work.

**SusanSi:** I would love it--maybe by age groups?

**BjB:** the real time events could be on the calendar...so other teachers could bring their kids in to see what they've done too

**DavidWe:** Thank you Sharon, for tonight's presentation and the forthcoming DVD

**SusanSi:** I really appreciate your time and help!

**SharonWB:** It's been fun talking with everyone.

**BjB:** Age groups is a good idea. If you have any other suggestions, please email one of us

**BjB** hugs Sharon...this has been an amazing discussion. Thanks!

**SharonWB:** Thanks!

**SharonWB:** And ... if anyone needs any help locating any NASA resources, just let me know.

**BjB** waves goodnight and goes to watch the PSU/FL St game

**SharonWB:** Good night.

**DavidWe:** Take care, Sharon