

## **Saturday March 3**

### **Session 1 10:30**

#### **Elementary Spanish Encounters Geography**

Dorleen Jensen - Salt Lake City Community College Emeritus  
Room 101

Young learners pick up foreign language skills naturally in context. Teachers will explore geographies of landforms, cultural landscapes, and international lifestyles in an immersive setting. Students will learn Spanish, English and geography seamlessly using these wonderful materials. Participants will experience several exercises from the “Doorway to Geography” resource book richly illustrated with photos from across South, Central and North America.

#### **Man Made Earthquakes! Destabilized by Our Quest for Energy**

Brad Baker - Bishop Dunne  
Room 102

Earthquakes in North Texas were once unimaginable but are now commonplace, this lesson will use GIS to examine the proximity of these new quakes to recent underground gas drilling to answer the question “should we stop drilling in the Burnet Shale?” The GIS concepts of image registration and digitizing and importing tabular data will be covered in this lesson.

#### **PASCO Models Math-Science Through Motion, Measurement and Maps**

Roger Palmer - Bishop Dunne  
Room 109

Math concepts can come alive when students move through the space they are modeling in different ways. We will work with PASCO probeware to create multiple representations of motion data gathered with motion detectors and integrated GPS. With this technology, students can work on describing elements of linear algebra and progress on to more complex quadratics. In this session, we will work on modeling these motions and finish by looking at map-based representations of this and similar data to help students work through issues of graphing, algebra and the tools to visualize this type of data collection.

#### **Technology in Teaching Languages, The Writing’s on the Wall**

Christine Voigt - Bishop Dunne  
Room 112

This session will provide a multitude of examples for incorporating eBooks and interactive whiteboards in the literature classroom. Participants will have the opportunity to explore techniques they can use with free eBook sources and tools such as SMART Notebook. They will learn how to capture and annotate free online materials from eBooks, digital video, and other Web 2.0 curriculum sources.

#### **National Geographic’s Giant Traveling Floor Map**

Herb Thompson – The GeoMan  
Room 114

National Geographic has created maps of each continent and the Pacific ocean in grand scale in order to allow students to kinesthetically experience the geography of each of these areas! We will explore rivers, deserts, rainforests, mountains and volcanoes as our students explore the second most populated continent in the world. Teachers will be provided a media kit for creating their own large scale map from individual tiles for classroom use once they see the value of working on a grand scale!

## **What's New at Pearson in eBooks, Making the Most of Online Learning**

Chis Cordell - Pearson Publishing  
Room 116

Pearson Learning Solutions creates eBooks for deployment in Learning Management Systems (LMS), portals, custom websites, and mobile devices. You choose the content of your eBook—be it your favorite text, original material, or chapters from a variety of Pearson texts—and we do the rest. Students will find your course more cutting-edge, and will benefit by having 24/7 access to course content, anytime, anywhere.

## **Sustainable Strings. The Making of Musical Instruments**

Julia Gray-lion - Bishop Dunne  
Room 211

String Instruments are beloved tools of musicians, however many of the woods and materials come from resources that are not easily renewed, i.e. rainforest woods and a long curing process. The Physics of String Instruments must be suitable for good musicianship and musical experiences. We'll be exploring where technology is taking us.

## **New Map Services from the National Atlas**

Catherine Lockwood – CNL World  
Larry Handley – U.S.G.S.  
Nathan Handley – CNL World

The National Atlas is the best data source for county level countrywide data on the net. This interactive computer interface demonstrates the dynamic features and basic data skills for identifying and comparing features from county census to historic topographic maps of the USGS's National Atlas. Learn how to access, navigate, and utilize the dynamic maps through a hands on-exercise, and share results with other participants. Participants will have the opportunity to provide valuable feedback on demonstrated materials for application and appropriateness for classroom use.

## **ENL: Nurturing a Community of Excellence**

Joanne Noller - Bishop Dunne  
Room 306

This course will provide some simple techniques that any teacher could use to help support their second language learners and any struggling student in their classroom. It will begin by presenting an overview of who ESL / ENL students are and typical issues that these students face followed by tools that can be incorporated to help support the students.

## **NASA's EarthKAM Middle School Acquired Space photography**

Angelo Casaburri - NASA AESP  
Room 310

Sponsored by NASA, EarthKAM (Earth Knowledge Acquired by Middle School Students) is an educational outreach program allowing middle school students to take pictures of Earth from a digital camera on board the International Space Station. Participants will experience the value of satellite photographs for teaching of topics from math to science, geography to economics, elementary through college. The site includes a rich source of lessons and imagery ready to use regardless of your involvement in taking the pictures.

## **Exploring the World with Children's Literature**

Dr. Paul Nagel - Northwestern University

Room 101

Are you an elementary teacher looking for a way to teach your students about the world? This engaging workshop for elementary students emphasizes basic geographic knowledge. How are locations similar and different? How are cultures alike? This session will feature an exciting, hands-on, active lesson to teach geography through children's literature.

## **STAAR - Geography's End of Course Exam**

Laura Jablinski – Social Studies Coordinator - Region 10

Room 102

Spring 2012, the State of Texas Assessments of Academic Readiness (STAAR™) will replace the Texas Assessment of Knowledge and Skills (TAKS). The STAAR program at grades 3–8 will assess the same subjects and grades that are currently assessed on TAKS. At high school, however, grade-specific assessments will be replaced with 12 end-of-course (EOC) assessments. In this session, we will investigate strategies on how to prepare students for the kind of thinking required on these end-of-course exams in Geography.

## **Changing Latino Demographics' Impact on Teaching**

Erika Banwarth-Cedrone - Catholic Schools Foundation

Room 109

Understanding the challenges and opportunities that accompany the growing diversity in our schools as we all work together to create a welcoming and culturally responsive environment is critical. As the people in our school communities change, so must our schools continuously strive to build strong cultural bridges. What can we do to address these changing demographics and how can we best serve our current and future school community?

## **Capturing a Time and Place in Writing: Dallas in the 60's**

Bert Shipp and Brett Shipp -WFAA Television News

Room 112

As broadcast news came of age in the turbulent decades of the 1950s and 1960s, North Texas reporter Bert Shipp was on the front lines. While television changed the way Texas and the world witnessed history, Shipp's Dallas/Fort Worth coverage reported stories of both national and local importance. Whether in the media race to cover the Kennedy assassination, on a mission to Laos to help recover a secret list of prisoners of war while on a mission in Laos, or highlighting the boy who had no shoes for Christmas, Shipp's accounts of chronicling the news are fascinating and often hilarious. Join this award-winning journalist as he recalls harrowing, humorous and true behind-the-scenes stories of those early days in Texas television news.

## **Placing World History: Strengthening Sense of Place**

Herb Thompson – The GeoMan

Room 114

While history is primarily a temporal social science, geography is a spatial one. As long as their unique perspectives are appreciated and valued, when taken together they can be a truly powerful combination and the key to understanding our past, present, and future. My hope is that you will find these lessons and the concepts they contain both valuable and easy to use or adapt. I hope they refresh your own understanding

of geography, but also engage students and help them reach a higher level of geographic literacy.

### **Lessons Learned in eBook Implementation: Bishop Dunne's Experience**

Paul Wood - Bishop Dunne  
Christine Voigt - Bishop Dunne  
Room 116

Bishop Dunne is in its second year of using eBooks in the classroom. Approximately 90% of the textbooks are now in a digital format across all disciplines grades 6-12. This session will chronicle the journey of one school and its mission to create a 1:1 BYOD learning environment utilizing eBooks instead of traditional textbooks.

### **Seeing the Trees not Just the Forest: Remote Sensing at UTD**

Dr. Fan Qiu - University of Texas, Dallas  
Room 211

Dallas covers 364 square miles which includes almost 22,000 acres of park land and 5,495 street miles. The majority of the trees in Dallas are on privately-owned land. UTD has developed the capability to determine the species of each tree by airplane based on height, girth and canopy spread, and ultimately place it on a map. Invasive tree disease (e.g. Oak Wilt) and non-native plants (e.g. Chinese privet) could be identified earlier and contained. With baseline tree inventory data collected, computer modeling will quantify the benefits to air quality, storm water runoff, energy savings and forest value.

### **Ordering Geologic Events with GeoBlox Models**

John Koonz – GeoBlox  
Room 304

Students will long remember rock types, faults and unconformities while they determine the order of events that set up this model. Building and exploring models can provide in depth knowledge of geology of even one preformed set for a fraction of the cost. Even the act of construction leads students to understand laws of superposition and determining what rock types came first in the model. All student begin to understand complex content due to this hands on approach.

### **Robotics Challenge I Design With Purpose**

Drew Halevy - Bishop Dunne  
Megan Paten-Nygren - University of Nebraska 4H  
Room 308

The crowning sessions in the robotics strand for the week will conclude with a challenge for participants to practice their understanding. Participants will build a robot that can explore Africa on the NGS Giant Traveling Map in the Gym but must turn back any time the robot ventures over the continental shore lines. Partially assembled systems will be available to save time in your project design. The team that stays on the map the longest while exploring the most of Africa has bragging rights!

### **Robotics Challenge Continued: Testing Designs**

Drew Halevy - Bishop Dunne  
Megan Paten-Nygren - University of Nebraska 4H  
Room – Gym

No engineering process would be complete without the trial and error of seeing your project at work in the field. Participants will test their designs on the NGS Giant Traveling Map of Africa now that they've designed a robot. The redesign process is the most important part of manufacturing a product in order to provide the most elegant or robust solution to a problem.

## **World Wind Casts Climate Modeled Predictions**

Amy Work - TWIST - Cayuga Community College  
Room 310

In this workshop, participants will experience activities and resources to explore wind and solar energy in the classroom. There are already a number of great lessons available that focus on various aspects of these types of energy sources. The lessons and supporting resources found here use geographic information systems (GIS) to get students to think about characteristics that influence the use of the sun and wind for the production of electricity in New York State. Even those with little or no experience using GIS and only a web browser can incorporate these into their classroom.

## **Session 3 1:20**

### **Elementary Spanish Water Science**

Dorleen Jensen - Salt Lake City Community College Emeritus  
Room 101

Young learners pick up language skills naturally in context. Teachers will explore aquatic sciences in a natural Spanish immersive environment. Richly supported with photos of rivers and lakes from across Central and South America.

### **Developing Analytical Skills in Geography**

Dr. Paul Nagel - Northwestern University  
Room 102

This engaging workshop for elementary and middle school teachers utilizes basic geographic knowledge to challenge students. Utilizing critical thinking skills to enrich geography content knowledge, an emphasis will be placed on developing practical analytical skills, an essential skill for the 21st Century. Students will create their own geographic analogies, which is an example of performance assessment.

### **LOCATE-ing Digital Tools for the Classroom**

Beth Burau - Bishop Lynch Catholic School  
Room 109

Evaluation is a natural process. Looking for Digital Tools to use in the classroom for both instruction and assessment can be daunting and time-consuming. Learn about 6 simple steps to help LOCATE effective, educational, and engaging Digital Tools for use in your classroom. Digital Tools may include but are not limited to websites, Web 2.0, devices, software, apps, etc.

### **“Battling Goliath”: from Class Action to Social Action**

Kip Petroff - Petroff and Associates  
Room 112

His is a story we need to hear not only at this time of the year, but in this economic climate! Do we really have the power to stand up to Goliath, whoever and whatever it may be? You betcha! Come hear this compelling story of how Kip Petroff held the corporate giant Wyeth accountable for the blind greed that put six million lives at risk with the release of the diet drug Fen-phen. This is a story you won't want to miss!

## **Fit to Burst! What's Happening with Housing Prices?**

Dr. Raj Deb - Southern Methodist University  
Room 114

Housing prices have changed dramatically over the past ten years. Many changes have little to do with quality of the property. Dr. Deb will draw out what causes these prices to change dramatically and consider what that may mean for the financial wellbeing of someone trying to hold on to what they've bought.

## **Glencoe McGraw's online Sciences and Mobile Accessibility**

Jason Scott - Glencoe McGraw Publishing  
Room 116

McGraw's CINCH Science Project takes collaborative learning to a whole, new Web 2.0 level. It engages today's net-generation students in active, project-based learning, leveraging the digital social skills they use every day. With CINCH, teachers can now offer an educational experience in line with today's technological realities, to better prepare their students for the emerging 21st century workplace.

## **Biodiversity and Life on the Amazon**

Cliver Rioja - Amazonian Naturalist  
Room 211

Home to the greatest biodiversity on Earth, Cliver has been systematically exposed to two worlds. One where scientific teams have used this young explorer as guide while teaching him the value and methods of science research, and a second where local customs have led him to appreciate the forest's natural abundance to support local populations. Cliver will examine wild flora and fauna along the Amazon River and their importance to a balanced ecosystem.

## **Streaming Maps from the National Atlas**

Catherine Lockwood – CNL World  
Larry Handley – U.S.G.S.  
Nathan Handley – CNL World  
Room 304

This interactive computer session demonstrates the dynamic features and basic skills for identifying and comparing geomorphic features on select historic topographic maps of the USGS's National Atlas. Learn how to access, navigate, and utilize the dynamic maps through a hands on-exercise, and share results with other participants. Participants will have the opportunity to provide valuable feedback on demonstrated materials for application and appropriateness for classroom use.

## **Keeping Your Robots on the Map**

Drew Halevy - Bishop Dunne  
Megan Paten-Nygren - University of Nebraska 4H  
Room 308

Explore the NGS Giant Traveling Map of Africa with the robot you created and programmed in session 1 and 2. Be careful...don't fall off!

## **Exploring Online Web Maps For Your Specific Discipline**

George Dailey – Esri  
310

Cloud-based programs, accessible with a simple web browser, are gaining popularity and becoming heavily depended upon. Internet mail, radio, books, shopping and now mapping software are good examples of cloud-based tools common to public access. We will explore ways these maps can be used to expose

students to big picture concepts taught in a variety of subjects. The most powerful aspect of these tools is that students can access and work on projects from anywhere and still later access them in class to present their stories.

## **Session 4 2:15**

### **Riddle Me This: Texas Geography**

Dr. Paul Nagel - Northwestern University

Room 101

I am a region that produces cotton, grains, and host to many, many cattle. I stretch from 'Cow Town' to the Gulf Coast. What am I? Learn the answer in an interactive thought-provoking workshop for elementary and middle school teachers. Participants will learn how to challenge their students in geography through the use of riddles.

### **Teaching as Game Design**

Cameron Christensen - Episcopal School of Dallas

Room 102

Working from the premise that classes in school are games by their very nature, my presentation focuses on applying the principles of game design to the classes we teach. I have restructured my own courses to be based on an XP (experience points) system in which I map XP to traditional percentages. I will share this and more as I attempt to unify the nascent "coursegame" movement with project-based learning and the commercial game industry.

### **Engaging Students at the Speed of Light**

Brad Peach - McKinney ISD

Room 109

Teachers all over the world are using video conferencing to make learning more exciting, and memorable. Video conferencing offers an immediate way to help students discover new cultures, languages, and ideas, all without leaving the classroom, and it's free. I would like to share my experiences and encourage experiential real time learning as a valuable tool to other educators looking for an engaging, and I should mention fun, opportunity for their students.

### **Research the Art of Writing with Evidence**

Carleton Stowers – Author

Room 112

Pulitzer prize nominated mystery novelist Carleton Stowers refers to famous local cases of intrigue as he compiles his book projects. Several of his works are historical looks at local celebrities and all of his writings require local research efforts around which to weave the story. Carleton will address techniques in narrowing in on important details while preserving the process of competing stories to build tension between characters. Mr. Stowers is the author of more than two dozen non-fiction books, one of which is an Edgar Award-winner, as well as two books for children--A Hero Named George and Hard Lessons--which are being used by elementary schools as part of their drug and gang prevention program. This is another must attend session!

### **Climate Change from the Origins of Humanity**

Hannah Moots - Museum of Nature and Science

Room 114

In 2000, a major archaeological discovery made in Niger by a team led by paleontologist Paul Sereno opened a window onto the “Green Sahara.” Called Gobero (GOH-ber-oh), after the Tuareg name for the area, the site revealed a 5,000-year-long drama of changing climate and changing cultures. Hannah will put the discoveries and the dates of the site into an historic context and personalize the science behind the story. Her first-hand experience with this project will make this a lively and exciting session.

### **Reaching Digital Natives**

Cathy Roberts - Holt McDougal Publishing  
Room 116

This presentation will include a preview of the latest technology resources from Holt McDougal for secondary math, social studies and language arts. The demonstration will include cutting edge web resources as well as the award-winning HMH Fuse, the world's first core app for schools developed exclusively for a touch screen mobile device.

### **Tropical Culture, Customs on the River**

Cliver Rioja - Amazonian Naturalist  
Room 211

The Amazon Basin houses the single most diverse set of living conditions for plants and animals on the planet. This leads to a huge variety of ways that people can live along the river. We will look at the differences between western style cities along the Amazon and the neighboring villages. How medicine is practiced and food is harvested are advantages that proves that traditional life is more sustainable over the frantic western life style.

### **Topographic Maps are Back Teaching Principles**

John Koonz – GeoBlox  
Room 304

Often frustrated with the lack of good hands-on three-dimensional examples of landforms and geologic features, we've designed inexpensive hands-on activities for students. Concrete examples of landforms can be discovered in the hands of students who can turn their models and explore them from all angles. You will explore contour lines, a landform model and predict what will happen off the page. Students walk away with more understanding if they've built and explored a concept. See for yourself and walk away with one of the models!

### **Teaching the Robotics Classroom**

Drew Halevy - Bishop Dunne  
Room 308

LEGO Mindstorms provide an exciting technology for kids to learn skills that will make them better builders, and will teach them the fundamentals of design, engineering, art and architecture. Drew will look at different ways to systematically work students through projects to affect the greatest confidence in students' abilities to solve problems.

### **GPS, Teaching Importance of Location**

Dr. Darryl McDonald - Stephen F. Austin State University  
Room 310

GPS devices are showing up everywhere and in all shapes and sizes, using them to monitor your pace, keep track of where you've been, or help guide you to a goal. We will cover how to use basic units, play several games and get comfortable with functionality that can add to a lifetime of knowledge and fitness for you and your students.



(Please proof this so that we can use it in case we have a cancellation)

### Walden University Tech Camps Description if needed.

When a small Texas town found that they were losing time in the classroom to cover many of the 21st Century technology skills that the techies knew needed to be covered, a unique partnership developed tech camps to help bring kids back to the classroom during the dog days of summer. Combining research and practice, a classroom teacher and a university faculty member created opportunities to combine technology with various authentic problems to provide a low-cost high-touch experience that often involved the entire community. From ecology to community, from literature to geography, these Tech Camps can be used in multiple settings including the regular school year classroom. Tech camp themes include x marks the spot (geocaching), my hometown (digital photography), and SOS: save our stream (video production).