



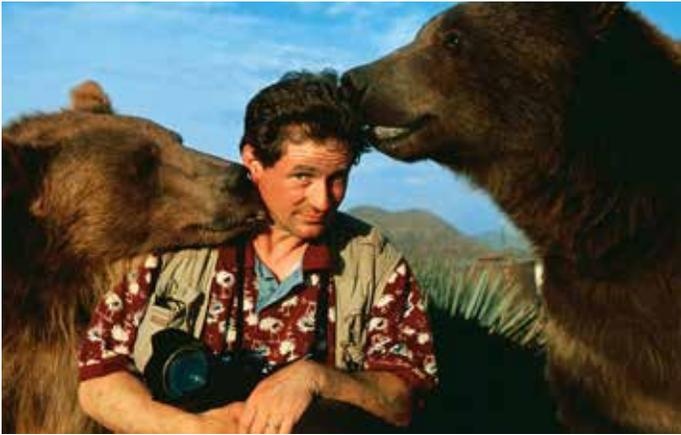
GeoTech 2016



**28th Annual Bishop Dunne
GeoTech Conference
February 25 - 26, 2016**

**Featuring Keynote Speaker
Joel Sartore,
National Geographic
Photographer and Conservationist**

KEYNOTE SPEAKER JOEL SARTORE



Freelance photographer and conservationist, Joel Sartore, has produced over 30 stories for *National Geographic* magazine. He is particularly concerned about the world's rare or endangered animals. In efforts to raise awareness about endangered species, he created Noah's Photo Ark, recording these rare species so that others would understand their worth and save them from extinction.

Visit joelsartore.com for more information on the Photo Ark project.

2016 Bishop Dunne GeoTech Conference Sponsors

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Previous GeoTech Keynote Presenters

2015	James Balog	Film Producer: <i>Chasing Ice</i> and Environmentalist
2014	Dr. Patrick Meier	Crisis Mapper and Humanitarian
2013	Dr. Albert Yu-Min Lin	Archaeologist, Explorer, and Pioneer of Crowdsourcing and Drone Exploration
2012	Dr. Mireya Major	Field Correspondent, Explorer, Naturalist, and Author of <i>Pink Boots and a Machete: My Journey From NFL Cheerleader to National Geographic Explorer</i>
2012	Dr. Kobe Boykins	Engineer and Designer for Mars Explorer at NASA's Jet Propulsion Laboratory
2011	Dr. Robert Bakker	Paleontologist and Author: <i>The Dinosaur Heresies</i>
2010	Ben Osborne	<i>Planet Earth</i> DVD Series Photographer
2010	Chad Pregracke	President of Living Lands and Waters, U.S. Jefferson Award for Public Service Winner, CNN Hero of the Year 2013
2009	Dr. Neil deGrasse Tyson	Astrophysicist, <i>Nova</i> Host, and <i>Cosmos</i> Host
2008	Dr. Dawn Wright	Oceanographer and Deep Water Explorer, Professor of Geography and Oceanography, Oregon State University
2007	David Rumsey	Cartographer and Philanthropist
2007	Dr. Spencer Wells	Geneticist, Anthropologist and National Geographic Explorer-in-Residence
2007	Sister Helen Prejean, CSJ	Author: <i>Dead Man Walking</i> , <i>The Death of Innocents</i> , Anti-Death Penalty Activist, Guggenheim Fellowship for Creative Arts Awardee
2006	Dr. Mae Jemison	Astronaut and Author, Founder and Chair of the Dorothy Jemison Foundation for Excellence
2005	Dr. J. Michael Fay	National Geographic Conservationist-in-Residence
2004	Jodi Cobb	National Geographic Photographer
2003	Dr. John Kuglin	Former Director of NASA's Earth Observing System (EOS) Education Project
2002	Dr. Wade Davis	National Geographic Explorer-in-Residence
2001	Dr. Sally Ride	Astronaut and Author. Professor of Physics, University of California at San Diego
2000	Erik Larson	Author: <i>Isaac's Storm: A Man, a Time, and the Deadliest Hurricane in History</i> ; <i>Thunderstruck: Devil in the White City</i> ; and <i>In the Garden of Beasts</i>
1999	Dr. Jane Goodall	Author: <i>Reason for Hope</i> ; Anthropologist and Scientist, Founder of The Jane Goodall Institute
1998	Dayton Duncan	Author and Co-Producer (with Ken Burns) <i>Lewis & Clark: The Journey of the Corps of Discovery</i> ; <i>An Illustrated History: The National Parks: America's Best Idea</i> ; <i>The Dust Bowl: An Illustrated History</i> ; <i>The Civil War</i> ; <i>Baseball</i> ; and <i>Jazz</i>
1998	Ann Bancroft	Author: <i>No Horizon Is So Far: Two Women and Their Extraordinary Journey Across Antarctica</i> and <i>Explorer - First woman at the North Pole and the South Pole and to traverse the Antarctic continent</i>
1997	Dr. Robert Ballard	Author: <i>Lost Liners: Explorer and Discoverer of RMS Titanic</i> , Founder of the Institute for Exploration, and the JASON Foundation
1997	Kenneth C. Davis	Author: <i>Don't Know Much About Geography</i> ; <i>Don't Know Much About History</i> ; <i>Don't Know Much About The Civil War</i> ; and <i>Don't Know Much About The Bible</i>

Map of Bishop Dunne Catholic School



GeoTech—Where Earth, Technology, and Exploration Meet

The GeoTech mission is to provide a forum to inspire and motivate educators in grades K-12 to teach about the Earth - its structure, societies, environments, and their interplay, using a wide range of technologies. The unifying theme of the conference is exploration beyond the classroom and instructional technology. The primary goal of the conference is to make a difference in the lives of the students and the community, and enhance the work of all educators at the local, state, and national level. The conference is now in its 28th year.

Bishop Dunne GeoTech Conference February 25-26, 2016

Thursday, February 25

Thursday Morning - February 25, 2016

8:00 a.m. - 9:00 a.m.

Breakfast in the Cafeteria

9:00 a.m. - 12:00 p.m.

Geo-inquiries
Anita Palmer

Using Content Rich Maps to Initiate Class Discussion
Room 304

Many classes use information on maps to help students understand concepts in textbooks. Most are printed on less than a page for students to explore. Learn how to quickly produce an interactive hands-on map that matches major textbooks for classes to explore. Every exercise is classroom ready and accessible for free from any Internet capable device. Lessons for Earth Science, U.S. History, Human Geography, and World Geography will be shared.

Story Maps
Dr. Andrew Klein

Give Life to Any Location Based Story
Room 306

Ready to take your students into deeper critical examination of data so they can learn about the world? Wrapping where your story takes place around the media available today of current or past events is like creating a top musical hit. You can create stories as memorable as Broadway and as pertinent as world history. By producing your own place based stories, the learning may never stop!

Engineering Capabilities of Drone Based Photography
Stacey Maples

Room 310

The hottest toy of the season becomes the cutting edge engineering, science, and geographical research toy of the classroom. Drones are more affordable than ever, so what can you do with them and the pictures they provide? These pictures see a beautiful world of 3D landscapes to answer some wickedly cool questions from stopping floods to finding archaeological treasures. Taking pictures to building 3D models is where it's all at.

Thursday Afternoon - February 25, 2016

1:00 p.m. - 3:30 p.m.

1. **The Big Red Courthouse and 6th Floor Museum**

Mike Alferts

Investigate forces that have established Dallas as a great American metropolplex, from cattle town to cotton production and eventual transition to technology, international trade, banking and energy. Discover the heritage and struggles of the modern city.

2. **SMU's George W. Bush Presidential Library**

Michael Kistner

This newest of presidential libraries highlights big movements in recent history. The displays of late 90's and 2000's world of rapid socio-economic change and turbulence starts the conversation for understanding today's social conditions. Mike Kistner will help us to get the most of our visit.

3. **Dallas Public Library**

Amanda York

Our public libraries host fantastic resources not just in English! Spend time to find a hidden source of materials available downtown, next to the Convention Center, for both you and your students. Local librarians will help guide you to make the most of materials for any level of comfort in languages from Latin to Lithuanian, French to Finnish. . . help your students access stories, poetry, popular literature from anywhere around the globe.

4. **Federal Reserve**

Alex Meza

In today's world of rapidly reorganizing economies, spend some time where the U.S. works hard to predict the eventual outcomes. Touring the Fed gives you a chance to also ask questions about today's markets as well as what controls they take to best protect how your money can work for you. Alex Meza will make sure to design an interesting experience to help you understand more about today's economy and money.

5. **Bunker Sands Wetland Center**

Roger Palmer and Father Tim Gollob

Dallas has the largest urban forest of any great American city. These areas serve many purposes from flood protection to access of natural spaces for its citizenry. Much of it serves to also preserve the region's natural ecosystems of Blackland Prairie, Cross Timbers or Post Oak Savannah. Join science teacher, Roger Palmer, and longtime priest and nature lover, Fr. Tim Gollob, to explore one such reserve on the Bunker-Hill Sands natural reserve where staff is dedicated to engaging Dallas students to do research on their extended property while the reserve serves as a natural buffer for filtering drinking water.

6. **Dallas Arboretum**

Brinkley Maclin

In our literary studies, we encounter many themes that reference nature. Poets in particular are known for their reverence for, and celebration of, nature. Join Brinkley and other language faculty as they explore the work of poets from Frost to Wordsworth at Dallas' internationally acclaimed Arboretum. You will tour the grounds while reading a selection of poetry and write a reflection or poem on sustainably made papers.

7. **The Cartographic Library at UT Arlington**

Brad Baker

This special collection is one of a handful of collections with an ongoing mission to collect and preserve materials relating to the history of cartography. Specialties include 19th century printed maps of Texas under Spanish Colonial and Mexican rule, through the republic period and early statehood to the end of the century. The Library also has a large collection of 19th and 20th century commercial atlases, school atlases, geographies, and gazetteers. Some may be surprised to know that the Library even collects secondary works on pirates and their relation to maps.

Thursday Evening
Keynote Speaker, Joel Sartore
7:00 p.m.



Friday Morning - February 26, 2016

9:00 a.m. - 10:00 a.m.

Session I

Mourner's Bench

Senderia Faye

Room 415

Sanderia Faye is co-founder and fellow at Kimbilio Center for Fiction. She likes to say that every story begins somewhere. Ideally that somewhere imbues the story with meaning, brings characters to life and leaves readers "seeing" the story as if it were presented in vivid color on a big screen. In this talk, Faye will delve into the world of "seeing" as a sensory experience and place as character. Faye will read passages from her debut novel, *Mourner's Bench*, to show how she draws readers into her world.

Story Maps: Tell Your Engaging Stories

Dr. Andrew Klein

Room 310

ArcGIS online is a free, amazingly capable map tool available completely from within any Internet browser on any Internet accessing device. Learn how to find locations where interesting events happen. Build simple layers of information to help tell compelling stories. Bring in your own data to get students excited about finding patterns in measured data all around them. You will leave with your own account and as many maps as you make and save in the session. These will be accessible from any computer back home or in your own school via a simple Internet connection!

Falcon Conservation in the Mongolian Steppe

Nicola Dixon

Room 209

Working to ensure the healthy population of top predators has been shown to be one of the best assurances of healthy ecosystems around the world. Join Nicola as she talks of one of the most expansive efforts at species stabilization currently operating in the world today. Started in 2009 with funding from the Environment Agency-Abu Dhabi, the agency helps increase the numbers of saker falcons in the wild. Nicola works with schools here and around the world to understand how the placement of 5000 bird of prey nesting boxes in Mongolia can ensure this system. The exchange helps raise awareness and funds for Mongolian schools while ensuring the sustainability of the world's only country with a CITES sanctioned trade agreement for this species in decline. Learn how you can get your students involved and learn from their experience right here in Dallas.

Math and Science iPad Graphs, Equations, and Models

Roger Palmer

Room 211

Graphs are a huge media for communicating information and patterns in science and math. Graphing packages such as Plot.ly or Desmos give online experiences that are great for analyzing data. Finding ways to make it interactive helps students better play with information that more intuitively develops their math senses while they learn the concepts described in the data. Participants will look at the presenter's past six months of nutrition and weight data to find patterns and predictive models of weight loss.

Building Strength for Best Performance

Myron Hawthorne

Room 110

Athletic success isn't the only reason students should be concerned with building optimum strength. Long term safety is in the national spotlight both in the news and movies. There are many benefits from maintaining strength. Major leg and arm muscles increase mobility and comfort, improved concentration in class situations, and while students are young and don't worry much about body condition, developing core stability improves long term health from pain or repetitive motion injuries. The session will focus on a wide range of strength development techniques to help your students in their performance or increase adults' quality of life.

Mission Adventures in Guatemala

David Janicki

Room 109

What can one person do to make a difference in the world? Wondering about faith and the practical ways to improve communities globally may seem a daunting task. One wonders where to even begin. David will share his volunteer experiences in a small community in Guatemala, explaining simple yet effective ways to be involved in cross cultural ministries of service and community development that any teacher, student, or community member are fully capable of accomplishing. Join the discussion on how you can make a difference!

Engaging Activities for World Language Learners

Kathryn Laster

Room 108

How can technology help you and your students become more creative? In this session, we'll explore web resources and apps to specifically help language teachers and students boost their creativity while practicing their language skills. This presentation will be an interactive session, and you will have time to explore, create, and share.

Friday Morning - February 26, 2016

10:15 a.m. - 11:15 a.m.

Session II

Standard Based Education: Beyond the Grade

Mary Palmer

Room 415

Standards-based learning is common in elementary schools, but it is becoming more widely used in middle and secondary schools. This session is meant to provide the big picture of standards-based education, focusing specifically on effective teaching practices and student learning. We will also be looking at the steps toward understanding standards, teaching and learning practices, and assessment and reporting within a standards-based classroom.

Drone Wars: How a Camera in the Sky Can Build an Empire!

Brad Baker

Room 310

Marvel and DC Comics, George Lucas or JJ Abrams have dreamed of fantastic tools for generations, this year's hottest Christmas gift has really opened the door for any teacher to leverage aerial digital imagery for classroom projects. From student reporters wanting the beauty and added perspective from above to science and engineering aspects of models built from these same photographs, drones are quickly becoming tools to provide data almost any subject area can utilize. Hear from lessons learned as we work through how to use this tool in classrooms at Bishop Dunne.

Design: The Polish on Interdisciplinary Projects

Gail Macalik

Room 211

STEM? STEAM? Innovation? Inspiration? How do we get these into our classroom? In this session, teachers will understand the rationale of STEM, its evolution into STEAM and how it affects their classroom, no matter what subject area taught. We will focus on how STEM has influenced changes in the business and technology industries our students will enter in the near future, and how our classrooms can imitate these changes. Teachers will also work together to show how they can reorganize their assessments, as well as the student collaboration in their classroom to inspire innovation.

Historical Inquiry, Engaging Students with Online Maps

Anita Palmer

Room 310

While history is the story of majestic to mundane movements across time and place, it's hard to find good media that encourages students to interact with the information. Many times maps or information take up a single page of the text or less, so getting students to explore and get excited about these events can be a challenge. The online environment allows you to present larger than life maps from your projector or get students to privately explore to their hearts' content on one to one devices depending on your teaching situation. Learn to lead students into adventure and exploration through dozens of specifically designed free maps set to cover history, human or physical geography with plenty of supported activities.

Let Your Imagination Take Flight

Lindsey and Simon McNeny

Room 209

Wildlife specialists Lindsey and Simon have worked with zoos and conservation groups across the country. Windows to the Wild is a new opportunity the McNenys have begun on their own with their extensive experiences to encourage groups to be a part of conservation of these animals worldwide. Join them as they give participants personal experiences with several birds from around the world. Discussion will cover wing design and how these features make each bird well suited to its environment. Conversations will include how you and your students can play a part in the conservation of birds, right here from your Dallas classrooms.

Life After Athletics

Panel of Past Athlete Parents and Coaches

Room 110

Many students regard a professional athletic career as the pinnacle for all they could hope. Those who do achieve it, spend much longer in retirement than most realize. Reflections from past athletes on what parts of the game have helped them succeed post sports can help coaches and mentors look for what's important to impart to all their athletes whether they compete after school or not.

Using Technology in Foreign Languages for Creating and Connecting

Kathryn Laster

Room 108

Technology is at its best when it extends both you and your student's creativity in the classroom. How can technology help you make connections with other classrooms across the country and across the world? This session will continue to use technology to facilitate ways to "flatten classroom walls" and help make global connections. There is nothing better than vital live communications to build student motivation and skills when learning languages.

Computational Thinking to Solve Cool Problems

Dr. Danial Goldberg

Room 110

Dr. Goldberg is a leader in the use of computational thinking, solving some of the large geographic challenges facing us today. Explore how to use the approaches used to address these large complicated scenarios used in computational thinking to solve everyday problems you might pose in your classroom. Breaking down problems to smaller tasks to solve more complex systems is an applicable skill across the curriculum at all levels. Student collaboration on math problems provides a lively context for solving more complex issues using their current math skills.

Friday Afternoon- February 26, 2016

11:30 a.m. - 12:30 p.m.

Session III

Standards Based Assessments, Beginning with the End in Mind

Mary Palmer

Room 415

While assessment may shine a light on student understanding, don't miss opportunities to reassure students they have attained the proficiency our communities feel they need to succeed. Knowing the skills you wish your students to command will help you to not only best prepare them for the material but also give them the confidence to monitor how they are doing along the way.

Tech Tools and Trends

Room 310

Christine Voigt

Find out about the latest trends in instructional technology. From Maker Spaces to Genius Hour, learn and experience ways to tap into your student's creativity. This session will provide quick demonstrations and hands-on experience with a variety of instructional tools.

Modeling and Inquiry Based Instruction

Van Rusuriye, Perri Carr

Room 211

Both math and science are being encouraged by national initiatives to help students move from concrete experiences to the more theoretical representations of these events. Helping students make sense of experiences through multiple representations of the event and reflective interaction between students is the basis of modeling and inquiry instruction. Informed by immersive workshops, experience what Van and Perri have used extensively in their classrooms to see why so much research claims this is critical to learning math and science.

Acting Locally: Getting Involved in Regional Conservation

Hailey Summerfield and Benjy Wood

Room 209

The National Audubon Center is dedicated to shepherding our global bird populations to resist unfortunate trends in species diminishment. Through education, print resources, and encouragement of land management practices they have certainly made a difference in keeping a flying presence in a growing urban environment. No other county in the U.S. has two separate Audubon learning properties with activities in which both you and your students can help to preserve these species. Join them to hear of the educationally appropriate ways you can get students to learn an ethic of balance for an enduring bird presence for lifetimes to come.

IPads, Online Maps, and the GIANT Texas History Exercises

Anita Palmer

Auditorium Stage

Bishop Dunne's GeoTech Conference has had the good fortune to explore huge representations of continents from around the world. Spend time exploring issues of Texas science, history, geography, and Texas culture on a larger than life map of Texas. If everything is bigger in Texas, then experiencing it on this map will leave an appropriate sized impression on you and your students. Learn how to check out the map for your school, or how the online lessons with interactive maps can be used anytime by any Internet capable device.

Social Justice, Social Action

Dr. Rick Halperin

Room 102

Rick Halperin, Director of the Embrey Human Rights Program at Southern Methodist University, is a recognized international authority on the death penalty, genocide, slavery, human trafficking, torture, and human rights. Rick will converse on the ethics of these practices as much as advocate for concrete steps both you and your students can take to make a broader statement in the public conversation of these topics. Past board member of Amnesty International and many other panels, Rick's presentation will give you a great chance to better understand these issues of human dignity.

Friday Afternoon - February 26, 2016

1:15 p.m. - 2:15 p.m.

Session III

Turnitin.com: Making It Work for You

Turnitin Staff

Room 415

In a world of rapidly checked facts from copious online resources, students have access to an incredible variety of information for use in written assignments. Using these ideas and resources can create tempting shortcuts instead of developing one's own ideas. Turnitin.com can reduce the enormous burden of helping students use online resources appropriately while becoming better at expressing their own thoughts. Staff from the company will demonstrate advanced capabilities and ideas for engaging your students in their writing process via live web based training.

Getting 3D Worlds into GIS

Scott Sires

Room 310

Scott Sires from Brookhaven College will demonstrate the use of handheld scanners to create valuable, detailed 3D models of indoor classrooms and other intermediate sized objects you might want to study. These can become the basis for printing prototype devices to modeling environments using multiple copies of objects scanned. These landscapes help solve challenging real world scenarios ranging from modeling monies saved by shaded landscapes, to understanding best ways for disaster preparedness, to aiding in mechanical design of critical infrastructure.

Creative Assignments and Assessments Using iPads

Dr. Jennifer Smolka

Room 211

Dr. Smolka has leveraged online tools in a variety of teaching scenarios from years of engaging undergrad and graduate students. This session will cover presentation techniques, assessment tricks, valued content sites for engaging students, and classroom management tools with a device that travels around the room to create multiple learning opportunities.

Every Student into Science: Citizen Science and the Zoo

Collin Johnson and Marti Copeland

Room 209

The Dallas Zoo hosts over three quarters of a million visitors a year through our neighboring facility. They specialize in engaging students to participate in the animal sciences while they are on site. Presenters will talk about the growing role of the public in adding to observation data and decision making from these efforts. Your students can play an active part in helping the zoo reach beyond its walls and get the whole region doing science!

Eat Right/Play Right. Building Great Lifetime Habits

Sue Schleusner

Room 110

Fitness records for Americans across the board look pretty grim in terms of healthy conditions. Don't let this inhibit you from introducing great ideas to your physical education classes, sports teams or modeling healthy living to those around you. Sue will look at little routines that help ensure both a fit life now for school activity but also keep in mind things that engage students for a lifetime of healthy eating and living.

Using Photographs to Enrich Your Class Experience

Gloria Nieto

Room 304

More than ever before, the average teacher, student, and related friends have access to camera technologies. Using even these images from phone based collections can enrich almost any class setting. From making worksheets to assigning assessment tasks to creating a classroom atmosphere, almost all students can use their own equipment or quickly borrow a neighbor's then share them to their own email. Before you know it, students (and their teachers) can be capturing data and images that can teach a thousand lessons. Simple rules of good photography, easy edits, and ideas of where to store and use imagery will be discussed for your classroom advantage. Let's get snapping!

Mathematical Thinking, Old Tool Style: by Calculator

Kevin Braun

Room 304

Don't you just wish students would reach for their calculators as quickly as their phones in relating to classroom data? The TI series device just does so much more than phone apps can while still being allowed on any test instruments. Join the math department as they make sure that this little tool opens students' world to the multiple representations of data proven to effectively learn math. Bring your TI 83 or 84 for some skill smashing showdown as you practice common math graphing and modeling capabilities.

2016 GeoTech Speakers



Sanderia Faye

Sanderia Faye is co-founder and fellow at Kimbilio Center for Fiction. She likes to say that every story begins somewhere. Ideally that somewhere imbues the story with meaning, brings characters to life and leaves readers “seeing” the story as if it were presented in vivid color on a big screen. In this talk, Faye will delve into the world of “seeing” as a sensory experience and place as character. Faye will read passages from her debut novel, *Mourner’s Bench*, to show how she draws readers into her world.



Mary Palmer

Mary Palmer, who has a Master’s of Arts degree in Curriculum Development, is currently the director of implementation of standards aligned teaching for Bismarck Public Schools. She is a 25-year veteran of English education with creative assignments in American Pageant, a combination class of U.S. history and English. She is an Apple distinguished educator, VFW national teacher of the year, and extensive grant awardee.



Dr. Rick Halperin

Dr. Rick Halperin, Director of the Embrey Human Rights Program at Southern Methodist University, is a recognized international authority on the death penalty, genocide, slavery, human trafficking, torture, and human rights. He is a past Chair of the Board of Directors of Amnesty International, USA. He served on the Board of Directors for several organizations, including the National Coalition to Abolish the Death Penalty, Human Rights Initiative, Capital Punishment Investigation and Education Services, Jefferson-Titus Refugee Foundation, Center for Survivors of Torture, and the International Rescue Committee.



Michael Kelling

Michael Kelling, The Bee Guy, is a retired middle school teacher from Brenham, Texas, who devotes his time to keeping bees and to photography. Mr. Kelling provides interactive school sessions on the importance of all types of bees and the products that can be made from their honey. A natural lifelong educator, he helps students understand the critical importance of this set of insects to the economy far outside of their honey making ability and emphasizes how much humanity depends on pollinators in our own food sources.



Nicola Dixon

Nicola Dixon, project manager for the Mongolian Artificial Nest Project School Links, started in 2009 with funding from the Environment Agency-Abu Dhabi, an agency that helps increase the numbers of saker falcons in the wild. Nicola Dixon, a 22-year veteran teacher, manages educational aspects for preservation of the saker falcon. Nicola started this interest at International Wildlife Consultants to organize the placement of 5000 nests in Mongolia. The exchange helps raise awareness and funds for Mongolian schools while ensuring the sustainability of the world's only country with a CITES sanctioned trade agreement for this species in decline.



Lindsey and Simon McNeny

Windows to the Wild preservationists, Lindsey and Simon McNeny, started their animal careers locally, volunteering for shelters and studying biology after high school. Lindsey worked with the Toledo Zoo before moving over to Natural Encounters who contracted with venues across the country for animal interactive shows from the San Diego Zoo to Disney's *Animal Kingdom*. Once Simon finished his Wildlife and Fisheries degree at Texas A&M, he worked as an animal keeper at the Dallas Zoo. Locally, they have worked both the highly popular Dallas Zoo and Fair Park interactive opportunities. Windows to the Wild is a new opportunity the McNenys have begun on their own with their extensive experience encouraging groups to get involved in the conservation of these animals worldwide.



Stacey Maples

Stacey Maples is a local SMU grad with a Master's of Science degree from UT Dallas. He is currently leading the charge for geospatial research at the Stanford Geospatial Center map lab and interdisciplinary GIS implementation. Trained in archeology, Stacey has worked projects from Martha's Vineyard to Kurdish Syria. Recently, he has been along the Mongolian/Chinese border working with aerial imagery and volunteered geographic information to inform their research.



Dr. Andrew Klein

Dr. Andrew Klein is a geography professor at Texas A&M, and has been a climate specialist since 1998. With a Ph.D. from Cornell, Dr. Klein's current research interests lie in the application of remote sensing and geographic information science (GIScience) techniques to study the cryosphere. He is using remote sensing to monitor tropical glacier recession and he has been actively involved in understanding human impacts at McMurdo Station, Antarctica. Dr. Klein also has an interest in how remote sensing/GIS can aid in improving geographic education and has been working with teachers on a number of educational projects.



Dr. Danial Goldberg

Dr. Danial Goldberg is an assistant professor of geography and computer science and engineering at Texas A&M. Dr. Goldman comes to Texas from the University of Southern California where he specialized in GIS analysis on health and environmental issues. A computational thinking leader from Texas A&M, he directs the Geo-Innovation Service Center there. Dan's focus includes computational Geographic Information Systems (GIS) for time based animations and investigations of BIG data. The center works to acquire volunteered geographic data and remote sensed imagery to apply these systems to HealthGIS, planning, transportation, and emergency management and responses.



Brad Baker

Brad Baker is one of the most experienced high school teachers of GIS in the country. He offers three years of GIS courses for students at Bishop Dunne Catholic School. His students have been honored in local news, newspaper, national magazines and at the ESRI international GIS Users Conference. Brad also coaches archery and designs an active hands-on approach to every class he teaches. Known for getting students to create their own island paradise, Brad also prepares his students to work through issues resulting from major disasters and power outages. Students take an active interest in the topics he covers.



Christine Voigt

Christine Voigt is the technology and curriculum implementation specialist at Bishop Dunne, where she provides mentorship for all teachers at the school. A teacher of both English and middle school science, Christine makes classes more effective by helping teachers navigate digital textbooks—from specialty tools from GIS, online science models, and digital storytelling to SMARTBoard techniques. Christine has a Master's degree in Instructional Technology and a Master's degree in Educational Leadership. Christine's sessions always leave you with practical things you can implement immediately in your classroom.



Gail Macalik

Gail Macalik has been an ELA and theology teacher in the Diocese of Dallas since 2001. She is passionate about creating cross-curricular projects and assessments for students, as well as advancing digital literacy. She received her Bachelor's degree of Arts in English at the University of Dallas, her Master's degree of Arts in Humanities at the University of Texas at Dallas, and is currently working on her Master's degree in Curriculum and Instruction with a focus on differentiated instruction.



Anita Palmer

Anita Palmer taught middle and high school social studies and technology (GIS, AutoCAD). Anita has authored and taught hundreds of institutes and classes for K-12 and college teachers and instructors focusing on integration of GIS technologies throughout the curriculum both in the U.S.A. and in the international arena. She is co-author of the original *Mapping Our World: GIS Lessons for Educators*, the community mapping based *Community Geography: GIS in Action Teacher's Guide*, *Our World, Mapping Our World*, and *Analyzing Our World*, the NASA funded NCGE *A Birdseye View* primary school curriculum, the American Association of Geographers' *Understanding the Changing Planet* online resource materials, and the Carte Diem Press *Going Places with GPS* in addition to *20 Minute GIS* for the Early Learner books.



Roger Palmer

Roger Palmer has taught high school chemistry, physics, Earth, environmental and field science, and is currently the department science chair at Bishop Dunne and Director of Outdoor Education. He has been involved with NASA initiatives using remote sensed imagery to teach math, science, and geography to K-12 students. He holds a Master's degree in Science in Chemistry and conducts research projects in the use of GIS to model integrated approaches to environmental problems.



J. Scott Sires

J. Scott Sires, GIS Program Coordinator and faculty member at Brookhaven College, is responsible for designing, creating, and administering Brookhaven's geospatial technology program. He has worked since 1985 in the geospatial technology industry, including spatial documentation and GIS training and applications. During his career, he has worked with telecommunications, local government, state government, and commercial clients to offer training and expertise in a full range of GIS services.



Kathryn Laster

Kathryn Laster is a languages specialist at Region 10's Service Center. She is a frequent presenter at regional workshops, engaging students to develop multiple languages to support understanding in their native tongue. Several faculty members have been involved with Katherine's workshops and are excited to work more closely with her in our particular setting.



Susan Shleussner

Susan Shleussner is department chair of physical education at John Paul II, and a frequent presenter on issues of innovative approaches to physical education. From designing engaging activities for all students to technology integration in the health fields, Susan works studiously to keep in touch with what makes fitness easy and a part of daily life long after students leave her classes.



Myron Hawthorne

Myron Hawthorne is Bishop Dunne's strength training coach and physical education teacher as well as Director of Transportation. Myron is an offensive line coach in football, field events in track, and general training of all athletes in the weight room. A returning alumnus of Bishop Dunne, Myron is also a graduate of Louisiana Tech where he played college football.

2017 GeoTech Keynote Speaker Bryan Christy



Bryan Christy is chief correspondent for *National Geographic* magazine's new Special Investigations Unit. In 2014 he was named a National Geographic Fellow and Explorer of the Year. On the eve of National Geographic Society's 125th anniversary, Christy's work exposing international wildlife trafficking wars was cited as one of ten ways National Geographic has changed the world.

Christy is the author of *The Lizard King: The True Crimes and Passions of the World's Greatest Reptile Smugglers*, a book the *New York Times* calls a "wild, wooly, finny, feathery and scaly account of animal smuggling on a grand scale." Christy went to work as a janitor at a reptile farm for his January 2010 *National Geographic* story, "The Kingpin," which exposed the world's most prolific and notorious wildlife smuggler, Anson Wong, and the complex web of government complicity that supported him. His investigation into the role of religion in the illegal ivory trade - "Blood Ivory," the magazine's cover story in October 2012—has had a wide and continuing impact and served as a foundation for the award-winning National Geographic-PBS documentary *Battle for the Elephants*. Most recently, Christy's work can be found in National Geographic's September 2015 cover story, "Tracking Ivory," in which he helped devise an artificial elephant tusk outfitted with a tracking system that led him to the doorsteps of Africa's most notorious militias and terrorist groups. His investigative reporting on this story has become a linchpin for world authorities to identify and stop illegal ivory trade and is the subject of "Warlords of Ivory," the first returning episode of the Emmy Award-winning National Geographic television series, *Explorer*.

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Bishop Dunne Catholic School
3900 Rugged Drive
Dallas, TX 75224
www.bdcs.org