



Mr. Kevin Caruso

Electrical Engineer

StanKraft Graphic Technologies

Research Specialty: Control Panel Design

Comfortable with the following age ranges: Grades 4-12

Comfortable with the following audience sizes: 100

Kevin Caruso earns a living helping companies design electronic control panels for industrial, medical, and transportation systems. He's an electrical engineer, sales manager, licensed private pilot, and author of a 282-page middle school book entitled "Back To The Moon". In 1991, Kevin created a Young Pilot Program for 11-16 year old students who were eager to learn about flying. In 1994, NASA's Cleveland Ohio Facility selected him to share space science and Apollo Moon Rocks with schools in Illinois. Since 1999, he's served as a NASA JPL Solar System Ambassador, and has served as a guest presenter at Space Center Houston's Educator Conference for 5 consecutive years. Kevin enjoys sharing his passion for space with nice people like you who invite him to visit.

Presentation Overviews and AV Requirements:

Dust Off That Globe!

Grades 4-12

Discover the power of models. If you dig a hole through the center of the Earth, where will you come out? NOT CHINA! Learn how powerful your globe really is, how the shuttle orbits the Earth, how the Moon orbits the Earth. See for yourself what the Apollo astronauts saw 2/3 of the way to the Moon.

AV Requirements: LCD projector (PC laptop), projection screen, white board, globe, and 2 electrical outlets

Space: Getting There, Living There, Coming Home

Grades 4-8

Where in the Universe do we live? What's special about our place in the galaxy and our solar system? What does it take to live here? What does it take to live away from our own planet? These are some of the questions Kevin will address. Using models of the Earth and Moon, indoor-safe rockets, a simulated space suit, and discoveries of the special requirements for living "off Earth", Kevin will provide a highly interactive tour of our fascinating space neighborhood.

AV Requirements: LCD Projector, Projection Screen, Black or White Board, Globe of the Earth, Electric Leaf Blower with Extension Cord

The Speed of Light is SO SLOW! (I'll prove it.)

Grades 4-12

Discover the galactic speed limit and what it means for space travelers who want to wander between the planets and stars. Build a scale model solar system and walk between the planets at the speed of light—you'll be surprised at how slow light travel really is!

AV Requirements: LCD projector (PC laptop), projection screen, white board, globe, and 2 electrical outlets

Space Mysteries

Grades 4-12

This get up and move session will uncover some of the mysteries surrounding space. From gravity to space exploration, be prepared to move and interact with your fellow classmates, while having fun learning.

AV Requirements: LCD projector (PC laptop), projection screen, white board, globe, and 2 electrical outlets

Space: Living Where the Sky is Always Black

Grades 4-12

What's fascinating about microgravity living about the International Space Station? How would your house need to be different if transported to Earth orbit? How would eating, sleeping, drinking, and bathing be different in space? What do astronauts do with their garbage anyway?

AV Requirements: LCD projector (PC laptop), projection screen, white board, globe, and 2 electrical outlets

Speed Limit: 17,5000 mph or Falling Around the Earth in Style

Grades 4-12

What in the world does it mean to orbit the Earth? Why do astronauts float in space? How fast are they moving? What would happen if I built a 100 mile high tower into space and dropped an egg—would it fall or float? Let's talk about gravity.

AV Requirements: LCD projector (PC laptop), projection screen, white board, globe, and 2 electrical outlets

More Space Mysteries

Grades 4-12

A high energy, hands-on smorgasbord of aerospace science fun. Be prepared to get up and move while learning about planetary exploration, deep space communications, comets, rockets, Galileo, Newton's Laws, and more. Mystery topics and door prizes make this energetic session with a wealth of ideas you'll discover about space.

AV Requirements: LCD projector (PC laptop), projection screen, white board, globe, and 2 electrical outlets

Weather Report from Venus...Talk About Hot!

Grades 4-12

What's hotter than your oven on its cleaning cycle? Where does it rain battery acid? Where would you be crushed into a blob—a boiling blob? On planet Venus, of course. Learn what the weather is like on other planets in our Solar System, and appreciate the Earth like never before.

AV Requirements: LCD projector (PC laptop), projection screen, white board, globe, and 2 electrical outlets

Space Getting There, Living There, Coming Home

Grades 4-12

From a rocket launch and the world's cheapest space suit to crystal growth, comets, and thermal protection tiles, learn what it's like to get into space, live there for a time and finally return home.

AV Requirements: LCD projector (PC laptop), projection screen, white board, globe, and 2 electrical outlets

Making a Model Comet—VERY COOL (literally)

Grades 4-12

What are comets? Where do they live? Are they hot or cold? What makes up their tails? Build several model comets and see which ones best fit the evidence. See some comets up close: Stardust Mission, Deep Impact Mission. Requirement: Must get hands a smidge dirty.

AV Requirements: LCD projector (PC laptop), projection screen, white board, globe, and 2 electrical outlets

Where Do We Live?

Grades 4-12

Where in the Universe do we live? Using models, we'll discover our local neighborhood: from our home planet to our Solar System to our galaxy to the Universe—take home a scale model of the Universe and impress your friends.

AV Requirements: LCD projector (PC laptop), projection screen, white board, globe, and 2 electrical outlets

Back to the Moon...the Next Steps

Grades 4-12

On December 14, 1972 in the silence of an airless moon, the Apollo 17 ascent stage lifted the last humans from the lunar surface. What's been happening since then? Learn about recent robotic visitors, clean fusion fuel, and the plans of private companies with advertising sponsors ("Lunartising") to bring us back.

AV Requirements: LCD projector (PC laptop), projection screen, white board, globe, and 2 electrical outlets

Kevin M. Caruso

Aerospace & Space Education Exploration Curriculum Vitae, including Publications.

Since first peering through a friend's telescope in the 6th grade, space exploration has been my passion. For over a decade, I've enjoyed sharing that passion with students and teachers.

I've created and taught Aviation and Space Programs for students and teachers since 1991. Other than the NASA and Space Center Houston Projects, these courses were my own creations.

I'm the published author of a middle school level book "Back To The Moon" August 2001, after 4 years of research and 1 year of final editing. I served as technical editor for the book "The Amazing Adventures of Spirit and Opportunity"---a children's book published in December, 2003 by my colleague John Wittenberg. I was interviewed by the Imagiverse web site for its Talk To Scientists & Engineers program for children.

I'd consider it a privilege to share my passion for space through the *Journey through the Universe* program.

1999- NASA JPL Solar System Ambassador Program

Present Serving as a NASA JPL Solar System Ambassador for Illinois Hands-On Space Presentations at Schools, Libraries, Book Stores, Chicago's Adler Planetarium, and Astronomy Clubs throughout Illinois, Wisconsin, and even Amarillo, Texas! These programs are for middle school students, parents, teachers, astronomers, and high school students (>1000 Students & teachers at Tascosa High School in Amarillo in 2003).

International Space Station Educator Conference

Space Center Houston, Houston, TX

Served as a Guest Space Presenter for 5 consecutive years (2000-2004)

Titles of My Space Presentations for 4th-12th Grade Teachers:

"Space Mysteries"

"More Space Mysteries"

"Hands-On Space"

"ISS: Living Where the Sky's Always Black"

"Space: Getting There, Living There, Coming Home"

"Back To The Moon" Published in 2001 ISBN 0-9705150-0-6

My 282-page Middle School Level Book, published in 2001, is based on 4 years of research, including interviews with several scientists, a Moon-walking astronaut, and the private companies planning Lunar returns in the next few years.

"The Amazing Adventures of Spirit and Opportunity"

I served as technical editor for this book, published in 2003.

The author is my colleague John Wittenberg.

1995- Young Pilot Program & Young Pilot II

1998 Schaumburg Park District, Schaumburg, IL and Buffalo Grove Park District, Buffalo Grove, IL

Hands-on Aviation Programs for children ages 11-16

Exploring Rocks and Soil From the Moon

1 Class/1 Day Programs for pre-K-6th grades using Apollo Moon Rocks:

Saint Hubert School, Hoffman Estates, IL
Lily Lake Grade School, Lily Lake, IL
Enders-Saulk School, Schaumburg, IL
Museum of Science and Industry, Chicago, IL
Saint Theresa School, Palatine, IL
Campanelli School, Schaumburg, IL and many others.

Schaumburg School District 54 Scientist Advisory Committee (1997)

Recommended updates for District's SpacePort 54 Solar System Program

1994: Young Pilot Program & Young Pilot II
Schaumburg Park District, Schaumburg, IL and
Buffalo Grove Park District, Buffalo Grove, IL
Hands-on Aviation Programs for children ages 11-16

NASA Lewis Project LEEP

Aerospace Education Specialist

3 Year Hands-On Program Sharing Space and Moon Rocks with Students

1993: Young Pilot Program & Young Pilot II
Schaumburg Park District, Schaumburg, IL
Hands-on Aviation Programs for children ages 11-16

Our Fascinating Solar System

Schaumburg Park District, Schaumburg, IL
5 Week Hands-on Solar System Program for children 11-16

1991-1992: Young Pilot Program and Young Pilot II: The Flight!
Wilbur Wright Junior College, Chicago, IL
5 & 4 Week Hands-on Program & Flight in a General Aviation Aircraft for
children ages 11-16 years

Young Pilot Program & Young Pilot II

Schaumburg Park District, Schaumburg, IL
Hands-on Aviation Programs for children ages 11-16

Illinois Aviation Teacher Workshop

Dupage County Airport, West Chicago, IL