

Welcome to “Space to Create”, the first ever **TEDxNASA** event!



Be prepared for a conference unlike any you have ever attended before. NASA has long been on the leading edge of exploring space. To NASA, space has one meaning. But to some, the space to create can be a canvas, a studio, a blank screen, or a city park. To others, it might be about allowing themselves the space to be creative and innovative, and solving pressing problems of any scale.

Today, expect to hear riveting talks from remarkable speakers. They are scientists and musicians, artists and engineers, authors and visionaries. They will take you on an emotional and an intellectual journey. Each has been carefully selected to deliver a powerful message. In the spirit of TED, our speakers have been challenged to give the “talk of their lives” in 18 minutes or less. There are no keynotes, no podiums, no panels, and no Q&A. You will see a combination of videos and live speakers arranged to spark deep discussion and connection with the audience. This interaction is just as important as presentations by speakers on stage.

Over the course of the day, there will be blocks of time set aside for breakout sessions. Attendees will be encouraged to participate in open, engaging discussions in the belief that bringing together this magnificent group of thought leaders, from a variety of professions, will allow great ideas and great solutions to emerge. Accordingly, attendees and speakers are encouraged to actively participate and stay for the whole event.

Today, we will begin to create a community of thought leaders unlike any you have experienced before, and we will share it with the world. I’m glad you chose to be a part of this incredible event.

Steve Craft
TEDxNASA Sponsor
Strategic Relationships Office
NASA Langley Research Center

What is **TED**?

TED is a small nonprofit devoted to “**Ideas Worth Spreading**”. It started out in 1984 as a conference bringing together people from three worlds: Technology, Entertainment, and Design. Since then its scope has become ever broader. The annual TED conferences in Long Beach and Oxford bring together the world’s most fascinating thinkers and doers, who are challenged to give the talk of their lives (in 18 minutes). At the four-day conferences, 50 speakers each take an 18-minute slot, and there are many shorter pieces of content, including music, performance and comedy. There are no breakout groups. Everyone shares the same experience. It works because all knowledge is connected.

“The best talks and performances from TED and partners are made available to the world, for free on TED.com. As of June 2008, more than 50 million people in 150 countries have watched a TEDTalk. Think of it as a clearinghouse that offers free knowledge and inspiration from the world’s most inspired thinkers, and also a community of curious souls to engage with ideas and each other. To see samples of previous TED talks, visit www.ted.com [It’s] hard to overstate the thought-provoking and imaginative capacity of the discussions”.

-Daniel Sieberg, *CBS News*

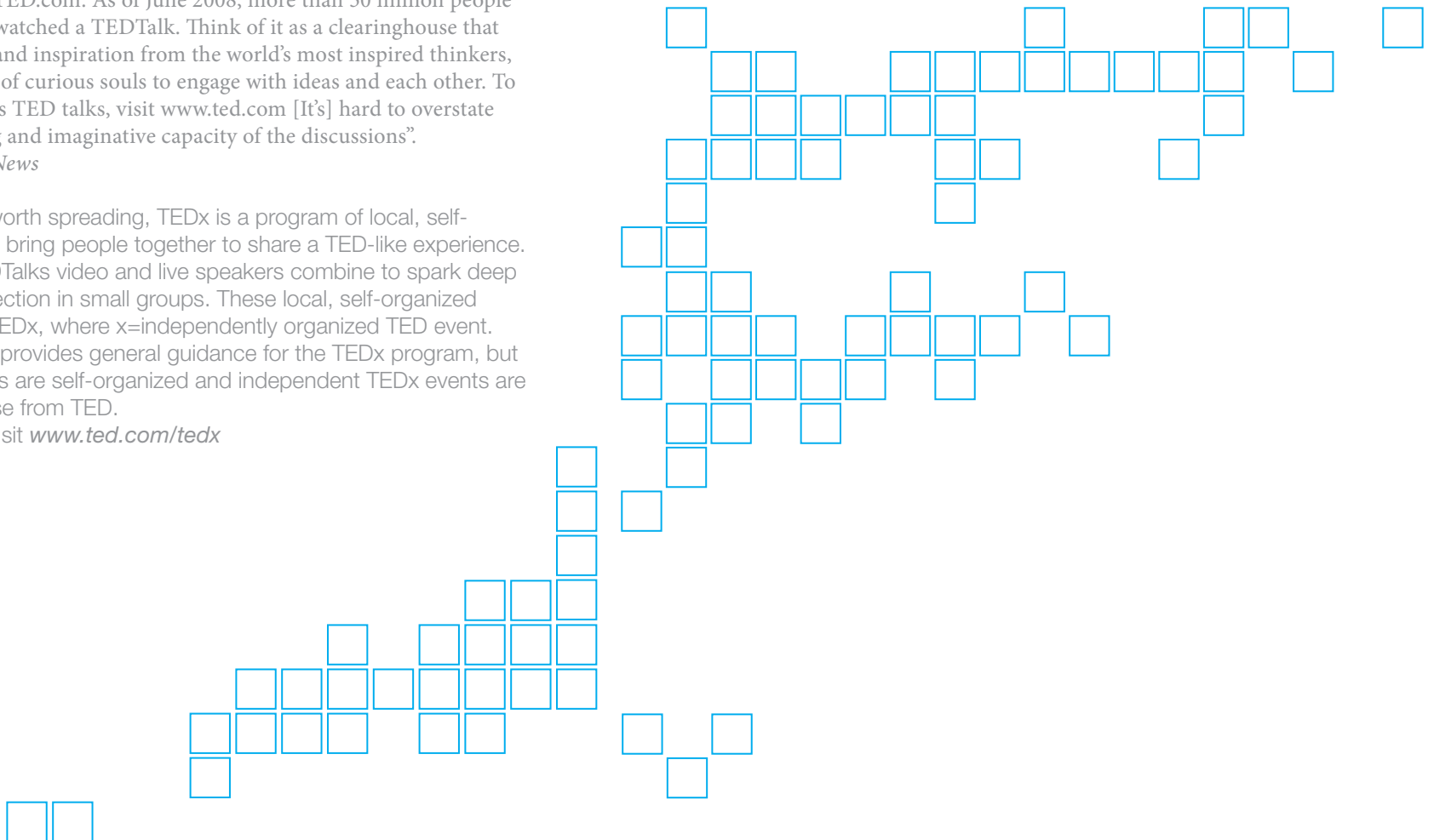
In the spirit of ideas worth spreading, TEDx is a program of local, self-organized events that bring people together to share a TED-like experience. At a TEDx event, TEDTalks video and live speakers combine to spark deep discussion and connection in small groups. These local, self-organized events are branded TEDx, where x=independently organized TED event. The TED Conference provides general guidance for the TEDx program, but individual TEDx events are self-organized and independent TEDx events are operated under license from TED.

For more on TEDx visit www.ted.com/tedx

What is **TEDxNASA**?

NASA is synonymous with innovation and thought leadership. TEDx is about ideas worth spreading. The TEDxNASA event will provide an opportunity to leverage the strengths of both organizations to present a unique opportunity for the exchange of game-changing ideas. Joining together under the 2009 TEDxNASA theme of “Space to Create,” innovative thinkers from both NASA and around the world will come together on November 20, 2009 at Christopher Newport University’s Ferguson Center for the Arts to share their very best ideas in the areas of science, education, the arts, business, global issues, culture, technology development and more.

For more about TEDxNASA visit <http://www.tedx-nasa.org>



TEDxNASA Talks



Mitch Albom
Author, Detroit, Michigan
Internationally renowned and best-selling author, journalist, screenwriter, broadcaster and musician, Mitch Albom does it all. His books have collectively sold over 28 million copies worldwide, have been published in 42 languages, and been made into Emmy Award-winning and critically acclaimed TV movies. Four years on the New York Times bestseller list, Albom's Tuesdays with Morrie is the most successful memoir ever published.



Chakaia Booker
Artist, New York City
A penchant for scavenged rubber, Chakaia Booker began a career assembling the strips and shreds of discarded Goodyears and Firestones into intricate, elaborate, widely acclaimed sculpture. Her work has a fully organic presence. For a NASA-commissioned memorial project, she disassembled a tire once used by the ill-fated space shuttle Columbia. Booker's work communicates her need to utilize her skills as a means of experimentation and exploration.



Dr. Paul Aravich
Neuroscientist, Virginia Beach, Virginia
Dr. Paul Aravich is a professor of neuroscience at Eastern Virginia Medical School. His passion is exploring the limitless possibilities of the brain. He calls it "the universe between our ears." He believes educating the public is vitally important so they can take a more active part in advocating for legislation to support neuroscience initiatives that affect public health, for example, chemical dependency policy or bike helmet laws.



Tyler Cole
Student, Sherman Oaks, California
Tyler Cole is an eighth-grader at Millikan Performing Arts Academy in Sherman Oaks, CA. An aspiring actor, he is also the inspiration behind the award-winning children's book, "Am I a Color Too?" and the grandson of TEDxNASA presenter Nancy Vogl.



Dave Ballou
Trumpet Performer, Michigan
Improviser, composer, soloist, teacher, Dave Ballou is assistant professor of music at Towson University and coordinator of the jazz/commercial music division. His repertoire is extensive - Bach's Brandenburg Concerto #2 with the Bella Musica Orchestra of NY, Larry Austin's Improvisations with the Boston Modern Orchestra Project, and Gunther Schuller's Journey into Jazz with the Spokane Symphony and Boston Modern Orchestra Project.



Gregg Fraley
Creativity & Innovation Coach, United Kingdom
Author, speaker, humorist and futurist, Gregg Fraley is an innovation consultant to Fortune 500 companies. An idea generator, he looks at topics through the lens of creativity. Fraley explores the behaviors that empower creativity, and discusses how to maximize creative potential.



Brenda Barrow
The Math Lady from Outer Space, Norfolk, Virginia
Past president of the Virginia Council of Teachers of Mathematics and an adjunct professor at Old Dominion University, Brenda Barrow is a seasoned veteran in the education field. A regular presenter for both the National and the Virginia Councils of Teachers of Math, she will demonstrate exciting, thought-provoking and experience-oriented strategies to spark an interest in and a love for math.



Dennis Hong
Virginia Tech Professor, Blacksburg, Virginia
Dennis Hong is an expert in the area of novel robot locomotion mechanisms, design and analysis of mechanical systems, kinematics and robot mechanism design, humanoid robots, and autonomous systems. He is the inventor of the three-legged walking robot "STriDER." He was awarded the prestigious Faculty Early Career Development award from the National Science Foundation in 2007.

TEDxNASA Talks



Sam Horn
Consultant, Northern Virginia
Known as America's intrigue expert, Sam Horn is an award-winning communications and creativity consultant. Audiences praise her presentations for their innovative, real-life ideas they can use immediately to reap real-world results. The author of POP! Stand Out in Any Crowd, Horn works with her clients to create one-of-a-kind identities that help their business, brand, idea, invention, project, or product POP!



Dr. Sue Morter
Bio-Energetics, Indianapolis, Indiana
A nationally known speaker, teacher and trainer, Dr. Sue Morter has been called one of today's messengers with tomorrow's message. Her Intentional Living Seminar has been lauded by participants as a life-changing event. By understanding the relationship between human energy fields, conscious thoughts and subconscious memory, she will explain how we can become who we really are.



Joel Levine
Planetary and Atmospheric Scientist, NASA Langley Research Center
Dr. Joel Levine has studied the atmospheres of Earth and Mars, their origin, evolution, structure and chemistry and climate change. Principal Investigator of the proposed ARES Mars Airplane Mission, he advocates a scientific exploration using a platform that can obtain high space resolution measurements of the atmosphere, geological features, surface magnetism, and search for life on Mars.



Jamia Nash
Singer, Los Angeles, California
With a bold voice and signature delivery that belies her 13 years, Jamia Nash is a superstar on the rise. Singer, stage performer, actress, she owned the stage at the 2008 Academy Awards when she performed "Raise it Up" from the Warner Brothers' feature August Rush, in which she received critical acclaim for her debut at "Hope." The President of the United States has dubbed Jamia "the definition of the future."



Anna McGowan
Aerospace Engineer, NASA Langley Research Center
Anna McGowan was aware by the age of 13 that aerospace engineering was her passion, Today she is one of NASA's leaders in adaptive technologies for flight. Always at the forefront of NASA projects that develop innovative technologies, her work has included advanced high-lift and micro-flow systems, tailored lightweight wings, aeroelastic concepts, smart materials and structures, and biologically-inspired flight.



Pat Rawling
Artist, Texas Hill Country
Space illustrator and designer, Pat Rawlings has visually documented the future of space exploration. His paintings, digital images and designs have been reproduced in and on hundreds of magazines, books, television programs and films in both in the U.S. and abroad. Via his realistic views of both human and robotic exploration, Rawlings will provide a chronology of the plans, hopes and desires of the planet's best space visionaries.



Leland Melvin
Astronaut, Lynchburg, Virginia
From Lynchburg, Va., to the International Space Station, Leland Melvin has had a multifaceted career. A chemist and materials engineer by training, Melvin was drafted by the Detroit Lions in 1986. An injury ended his NFL career and brought him back to science. Chosen for the astronaut corps by NASA in 1998, he flew as a mission specialist on Space Shuttle Atlantis in 2008, logging over 300 hours in space. He returns to space on STS-129.



Mike Rayburn
World's Funniest Guitar Virtuoso, Las Vegas, Nevada
Mike Rayburn draws from a wealth of life experiences as an adventurer, humorist, songwriter and father to combine music and comedy. He will use his astounding guitar creations, uproarious songs and presentation skills to encourage, challenge and inspire the audience to step beyond their perceived limitations.

TEDxNASA Talks



Lesa Roe
Director, NASA Langley Research Center
 Lesa Roe leads a \$3B R&D lab that conducts research as varied as breaking air breathing propulsion speed records and enhancing our knowledge of Earth's atmosphere to successfully landing spacecraft on Mars. During her 25-year tenure with NASA, Roe led the research program for the International Space Station and worked over 25 Shuttle missions. Her passion is innovation and shaping the future in aeronautics and space.



Steve Shapiro
Innovation Consultant, Quincy, Massachusetts
 Articulate, knowledgeable, and provocative, Steve Shapiro quickly captures the attention of his audience in a style that is as innovative as his subject matter. During his 15-year tenure with the international consulting firm Accenture, he established and led their Global Process Excellence Practice, delivering innovation training to 20,000 consultants. Shapiro helps individuals and businesses realize their full potential with less effort and more personal satisfaction.



Jana Stanfield
Entertainer, Nashville, Tennessee
 Humorist, songwriter and educator, Jana Stanfield combines laughter, wisdom and her million-selling songs into an interactive experience that generates fun and positive action. You've heard her music on 20/20, Entertainment Tonight, and Oprah. Her compositions are sung by Reba McEntire, Andy Williams and others. Known as "The Queen of Heavy Mental," Jana describes her music as "psychotherapy you can dance to."



John St. Augustine
Author and Talk Show Host, Chicago, Illinois
 Talk radio show personality, author, motivational speaker, John St. Augustine has been called "the new voice of America" and "the most influential voice on radio." His talk radio show was created with one underlying goal - to make sure listeners have access to information that would not only entertain but also inspire them to a greater life experience. St. Augustine will share his thoughts on how important it is to recognize the defining moments in life.



Micheal Jefry Stevens
Steinway Artist, Memphis, Tennessee
 For over 35 years, Michael Jefry Stevens has been associated with some of the most important figures in modern jazz. Frank Rubolino of Cadence Jazz Magazine writes, "Stevens is a sensitive pianist who ekes out droplets of sparkling gems or volumes of rushing waves having a lyrical foundation and a complex consistency." Since 1993, the Fonda/Stevens Group has repeatedly toured Europe and is a premier working modern jazz group on the international scene.



Nancy Vogl
Author, Michigan
 Speaker, author, songwriter, Nancy Vogl was drawn to the speaking industry as a promoter of well-known presenters and authors. But her books, particularly the award-winning, multicultural children's book, "Am I a Color Too?" led her on her own speaking journey. Her greatest thrill is inspiring others by sharing her stories. Vogl communicates her passion that, when we view others only by what is seen on the outside, we negate the true essence of our humanity.



Loretta Hidalgo Whitesides
Space Activist, Washington, DC
 The president of the Space Generation Foundation, Loretta Whitesides is all about getting access to space for private citizens. Her all-volunteer nonprofit promotes involvement in space and space training and is probably best known for starting Yuri's Night, a party for space celebrated in over 180 countries every year. Whitesides see the future of space in the eyes of students and she wants them to train to be the next Buzz Aldrin or Sally Ride.

TED videos played at TEDxNASA

- What is TEDx?.....Chris Anderson
- Stroke of Insight..... Jill Bolte Taylor
- 1.3m Reasons To Re-invent The Syringe..... Marc Koska
- The Surprising Science of Motivation..... Dan Pink
- Water Filter Turns Filthy Water Drinkable.....Michael Pritchard
- Ideas for India's Future.....Nandan Nilekani
- Liquid-filled Eyeglasses.....Josh Silver
- Demo of SixthSense Technology.....Pattie Maes & Pranav Mistry

TEDxNASA Sponsors & Contributors



We'd like to take a moment to recognize those people who have made significant behind-the-scenes contributions to the inaugural TEDxNASA event. Our team offers the deepest gratitude to the following friends:

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