



# IMAGINE SOLUTIONS CONFERENCE MONDAY, MARCH 6 2023

**18 Thought Leaders & Game Changers addressing  
"Science Matters," Education, Exploration,  
Adventure, Civil Discourse, The Arts,  
Storytelling, Tomorrow's Leaders, Energy,  
Political Science and more!**

## FIVE SCIENCE BREAKTHROUGHS CHANGING OUR WORLD



**Doris Taylor, Ph.D., FACC, FAHA**

- Director, Regenerative Medicine Research and Director, Center for Cell and Organ Biotechnology at the Texas Heart Institute
- Her lab developed the process to grow personalized, on-demand, replacement human hearts
- A major scientific breakthrough for the 800,000 people each year who otherwise would die from Cardiovascular Disease



**Pat Brown, Professor of Biochemistry, Emeritus at Stanford University; Founder of Impossible Foods**

- Developed plant-based substitutes for meat products
- Brown and his team spent five years researching and developing the science behind the Impossible Burger
- Why he did this – Brown believed that the world's largest environmental problem, and the problem where he could have the most impact, was the use of animals to produce food



**Jean Bennett, MD, Ph.D., F. M. Kirby Professor of Ophthalmology in the Perelman School of Medicine at the University of Pennsylvania**

- A gene therapy expert recognized for her translational work on inherited retinal degenerations
- Led the science development for the first FDA-approved gene therapy product for a genetic disease
- Her lab led the development of gene therapies for curing blinding diseases



**Paul Stamets, Speaker, Author, Mycologist, Medical Researcher and Entrepreneur**

- Recognized as the industry leader in fungi: habitat, medicinal use, and production
- He created new medical applications for mushrooms
- His research led to significant breakthroughs revealing the power and potential of mushrooms and mushroom mycelium
- Psychedelic Science becomes mainstream medical solutions



**David Liu, Director, Merkin Institute for Transformative Technologies in Healthcare at Broad Institute of MIT and Harvard**

- The leader in developing the delivery of genome editing proteins such as base editors to study and treat genetic diseases
- Creating potentially new binding sites for cancer drugs

## EDUCATION



**Sherrie Westin – President, Sesame Workshop**

MISSION: Helping Kids Everywhere Grow Smarter, Stronger, and Kinder.

- In 150 countries, serving ½ billion children each day
- On screens, in classrooms, in communities—everywhere families can use a trusted hand to help little ones reach their full potential
- We need to be posted about all the good things going on at the Workshop

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## PROMOTING THE PROGRESS OF SCIENCE



**Sethuraman (Panch) Panchanathan, Ph.D., Director, National Science Foundation (NSF)**

- NSF supports basic research and people to create knowledge that transforms the future
- An annual budget of \$8.8 billion (FY 2022) to fund basic science research. The funding source for approximately 25% of all federally supported basic research conducted by America's colleges and universities
- The agency also supports "high risk, high pay off" ideas, novel collaborations, and numerous projects that may seem like science fiction today, but which the public will take for granted tomorrow
- NSF's job is to determine where the frontiers are, identify the leading U.S. pioneers in these fields and provide money and equipment to help them continue
- NSF is the backbone supporting the United States leadership in scientific development

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## BRINGING SCIENCE STORIES ALIVE



**Sean B. Carroll, Ph.D., Internationally Recognized Scientist, Award-winning Author, and an Emmy-winning Executive Producer**

- As Head of Studio, Carroll directs HHMI Tangled Bank Studios' mission, strategy, and editorial focus, and oversees both the documentary and dramatic film slates. An internationally recognized scientist, award-winning author, and Emmy-winning executive producer, Carroll is the architect of HHMI's filmmaking initiative to bring great stories about science and nature to broad audiences.
- Through Carroll's leadership and work, HHMI Tangled Bank Studios, an Emmy award-winning production company that crafts exceptional films where science is a lens for making sense of our world, is celebrating 10 years as a mission-focused studio.
- Recent films include Emmy Award-winners *The Serengeti Rules* and *The Farthest – Voyager In Space*; Emmy-nominated *Nature's Fear Factor* and *My Garden of a Thousand Bees*; Peabody Award-winner *Inventing Tomorrow*; and *All That Breathes*, the first film to win best documentary at both the Sundance and Cannes Film Festivals.
- To extend the reach and impact of each film, the studio undertakes educational and public outreach efforts in partnership with mission-focused organizations.

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## ENERGY



**Dr. Vijay Swarup, Vice President of Research and Technology at ExxonMobil**

- The Science of Energy
- With his team of 735 researchers, Dr. Swarup is excited about what can be achieved through collaboration with the diverse science disciplines in his organization and believes it has the ability to change society's future and its impact on the environment.

## BIODIVERSITY



**Mike Gunton, Executive Producer, BBC Natural History Unit**

- Executive Producer of The Green Planet series, the latest cutting-edge wildlife documentary from the BBC Studios Natural History Unit
- Focuses on the taxonomic kingdom that is often relegated to the background of popular representations of the natural world—plants
- Hosted by Sir David Attenborough, raises awareness of the world’s rarest wildlife and most precious habitats, and the threats they face
- ADDRESSES: Nature is vital – we can’t survive without it. But our world is under threat like never



**Joshua Daskin, Ph.D., President of Gorongosa Trust**

- Director of Conservation at Archbold Biological Station in Highlands County, FL and is among the foremost proponents of the campaign to protect the 18-million-acre Florida Wildlife Corridor
- Leading voice for the use of science in large-landscape and biodiversity conservation and spent more than seven years as a researcher working in Gorongosa National Park, Mozambique
- Earned his B.S. in Biology and Environmental Studies from Brandeis University, a M.Sc. in Zoology while a Fulbright Scholar at James Cook University in Australia, and a Ph.D. in Ecology and Evolutionary Biology from Princeton University.

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## CIVIL DISCOURSE



**Clea Conner, CEO of Intelligence Squared**

- Addressing a fundamental problem in America: the extreme polarization of our nation and our politics
- America’s Debate Series - Let’s restore critical thinking, facts, reason, and civility to American public discourse. Join the debate and hear both sides of every issue. A program that has grown to 6 million participants.

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## THE ARTS



**Janet Echelman, American Sculptor and Fiber Artist**

- Has been redefining public art sculpture for 20 years
- The lightweight surfaces of her sculptures shift and ripple with air currents, an effect which may be enhanced with projected light and fans. These are often installed so the audience may interact with the sculpture, reinforcing Echelman’s theme of interconnectedness.



**Benjamin Zander, Conductor of the Boston Philharmonic Orchestra and the Boston Philharmonic Youth Orchestra**

- Founded the Boston Philharmonic Youth Orchestra recognized as one of the finest youth orchestras in the world
- His passion and boundless energy unlock potential within individuals and organizations. “I realized that my job is to awaken possibility in others.”

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## HISTORY OF WHITE POWER, A THREAT TO DEMOCRACY



**Kathleen Belew, Author of *Bring the War Home: The White Power Movement and Paramilitary America***

- An international authority on the white-power movement and specializes in the recent history of the United States
- Teaches on the broad themes of race, gender, violence, identity, and the meaning of war
- Describes the “white power movement” as a “threat to our democracy”, “transnational”, and “connected to neo-Nazis, Klansmen, skinheads, radical tax protestors, militia members, and others”
- Holds a doctoral degree in American Studies from Yale University

## EXPLORATION



**Fabien Cousteau, Founder of Proteus**

- An aquanaut, ocean conservationist, and documentary filmmaker
- First Grandson of Jacques Cousteau
- Creating, Proteus, the world's first underwater marine laboratory

## TOMORROW'S LEADERS



### RISE Global Foundation, Empowering Future Leaders & Entrepreneurs

- Finds brilliant people (ages 15 to 17) who need opportunity and supports them for life as they work to serve others – 2 winners of RISE Awards
- An initiative of Schmidt Futures and the Rhodes Trust, RISE is the anchor program of a \$1 billion commitment from Eric and Wendy Schmidt to find and support global talent
- RISE - searches for hidden brilliance, in whatever form it takes, wherever it is in the world
- **Andrew Gao** – RISE Fellow, student at Stanford University – RISE project: STEM - 501C3 bioinformatics and STEM Ed nonprofit
- **Siya Goel** – RISE Fellow, student at Stanford University – RISE project: STEM - 501C3 bioinformatics and STEM Ed nonprofit

## HOST & MODERATOR



**Tyler Mathisen CNBC - "Power Lunch" Co-Anchor & Vice President, Events Strategy**

- HOST and an Emmy award-winning journalist for CNBC. He currently hosts "Power Lunch." He is a veteran of on-air journalism, having anchored numerous series on economics, finance and investing, including "Open Exchange," "Nightly Business Report," "Closing Bell" and "Business Center."

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Arthrex One Conference Center



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