

MARCH FOR SCIENCE CLEVELAND

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**MARCH FOR SCIENCE CLEVELAND
SPEAKER PROGRAM, SOUTH PUBLIC SQUARE,
10-11AM**

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KEYNOTE SPEAKER

DR. EMMITT JOLLY

**ASSOCIATE PROFESSOR, DEPARTMENT OF BIOLOGY, CASE WESTERN RESERVE
UNIVERSITY**



The work of our keynote speaker, Dr. Jolly, is a great example of how basic research directly relates to the lives of millions of people around the world. His NIH-funded research focuses on understanding gene expression,

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Biology at Case Western Reserve University and in the Center for Global Health and Disease in the CWRU School of Medicine. He holds a Bachelor of Science in Biology from Tuskegee University, where he was a Presidential Scholar and one of USA Today's Top Forty National Scholars. His Ph.D. in biochemistry and molecular biology is from the University of California, San Francisco (UCSF) where he trained under MacArthur Award recipient and National Academy of Sciences (NAS) member Dr. Ira Herskowitz, and worked with NAS member Dr. Carol Gross. He was a Ford Foundation Fellow, a UNCF/Merck Dissertation Fellow, and was awarded the UCSF Chancellor's Martin Luther King Jr. Award. He is past president of the Association of Underrepresented Fellows, and is passionate about science education and community outreach and development. His leadership led to a Proclamation from the Governor of Alabama, and an award of leadership from the California State Senate. Dr. Jolly was recognized in Kaleidoscope Magazine's Forty under Forty, Who's Who in Black Cleveland, and was awarded the Nsoroma Award for Science from the National Technical Association.

FEATURED SPEAKERS

MR. PAUL R. ABBEY

INTERIM CEO, HOLDEN FORESTS AND GARDENS



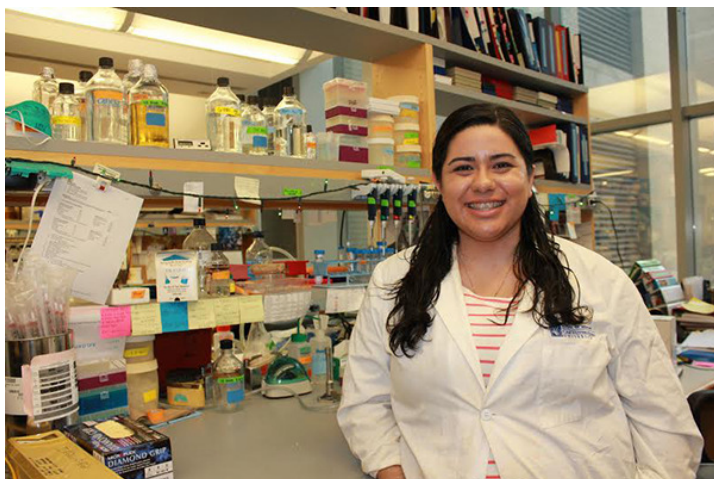
Mr. Abbey grew up in Bradford Pennsylvania, where he developed his passion for Nature. After earning his B.A. in Political Science at the College of Wooster, and an MBA from Baldwin- Wallace, he launched his career in banking at National City Bank, now PNC, and migrated to Investment Banking with Prescott Ball & Turben, before establishing his own wealth management company as the founding partner of Fairport Asset Management where he remained for 30 years before retiring in September 2016. Paul's passion for serving the community is demonstrated by his service as a former member and President of the Board of Directors for Heather Hill Rehabilitation Hospital, and the Visiting Nurse Association of Cleveland. He served his alma mater as a Trustee of the College of Wooster Board for 9 years before becoming an Emeritus Trustee. He is a former President of Wooster Alumni Association, and serves the Cleveland Alumni Leadership. Paul's connection to The Holden Arboretum and Cleveland Botanical Garden spans 40 years. He has served The Holden Arboretum Board of Directors since 2007, and as Chairman since 2012. As Chairman, Paul was instrumental in organizing the merger of The Holden Arboretum and Cleveland Botanical Garden to create Holden Forests & Gardens, which stands as the 11th largest public garden in the United States. He is currently serving as the Interim President & CEO of the organization. Paul is an avid golfer and trout fisherman. He and his wife Connie Norweb-Abbey reside in Kirtland adjacent to the Arboretum, and are proud parents and grandparents to three daughters and one grandson.

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MEDICAL DIRECTOR OF COMMUNITY INTEGRATION AT RAINBOW BABIES, AND SUSTAINABILITY ADVISOR FOR UH

Aparna Bole, MD, FAAP is Medical Director of Community Integration and a pediatrician at University Hospitals Rainbow Babies & Children's Hospital in Cleveland, OH. Dr. Bole also serves as Sustainability Advisor for University Hospitals Health System, providing guidance and clinical support in the health system's efforts to integrate environmental along with social and economic considerations in all of its operating practices. She is particularly interested in the intersection between environmental sustainability and pediatric public health, and serves on the American Academy of Pediatrics Council on Environmental Health Executive Committee, and the boards of the Ohio Environmental Council, Healthcare Without Harm, and Practice Greenhealth.

MS. LESLIE CUELLAR VITE**GRADUATE STUDENT, DEPARTMENT OF PHARMACOLOGY, CASE WESTERN RESERVE UNIVERSITY**

A graduate student in cancer research and the daughter of Mexican immigrants, Ms. Cuellar Vite understands how science empowers people and diversity empowers science. She is Co-chair of March for Science Cleveland's Volunteer Committee. She was born and raised in the San Francisco Bay Area, and graduated from Middle College High School with some 80 college credits! She obtained her Bachelor of Science degree in Biology with an emphasis on Physiology. She was motivated to attend college by her parents, her two older brothers (first-generation college students) and a mentoring program called Metas. Originally, she wanted to

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understanding of mammary morphogenesis and carcinogenesis through in vitro and in vivo approaches.

DR. EVALYN GATES**CEO AND DIRECTOR, CLEVELAND MUSEUM OF NATURAL HISTORY**

Dr. Gates is the Executive Director and CEO of the Cleveland Museum of Natural History, and a research scientist in cosmology and particle astrophysics – understanding the universe on its smallest and largest scales. Under her leadership, the Museum is undertaking a bold and innovative renovation and expansion project to reinvent its physical campus with the focus on bringing science to life for people of all ages and inviting people to personally engage in science. After receiving her Ph.D. in theoretical physics from Case Western Reserve University in 1990, Dr. Gates held postdoctoral fellowships at Yale University and the University of Chicago and was a member of the theoretical astrophysics research group at Fermi National Accelerator Laboratory. Before coming to the Museum in May of 2010, Dr. Gates was the Assistant Director of the Kavli Institute for Cosmological Physics at the University of Chicago. Most recently, her research has focused on various aspects of dark matter, and the search for ancient stellar fossils in the form of the oldest white dwarfs. Her first book, *Einstein's Telescope: The Hunt for Dark Matter and Dark Energy in the Universe*, was published by W.W. Norton in February 2009. Dr. Gates is dedicated to addressing the under-representation of women and minorities in the physical sciences and is also working to transform science education, believing that students need to be introduced to current science and exciting discoveries in ways that spark their curiosity and inspire them to learn more. The Inspire: Reach Every Child program for every second grader student and teacher in the Cleveland Metropolitan School District is one example of the impact of this approach. On a national level, she serves on the Panel on Public Affairs for the American Physical Society. Dr. Gates leads the Institutional Partners Committee of the March for Science Cleveland.

DR. HAZEL MARIE**PROFESSOR AND CHAIR OF MECHANICAL ENGINEERING, YOUNGSTOWN STATE UNIVERSITY**

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Professor and Chair of Mechanical & Industrial Engineering at Youngstown State University, Dr. Marie feels the scientific and engineering community have the responsibility to reach out to the public, particularly under-represented populations. She is dedicated to helping revive Youngstown economic health through promoting science-oriented business initiatives and the public understanding of them. She has overseen wind turbine initiatives at Youngstown State's College of Science, Technology, Engineering and Mathematics. Her research interests also include modeling and simulation techniques as applied to a variety of physical phenomenon. As an educator, she has been honored with awards by the YSU Distinguished Professor designation, the Northeast Ohio Council on Higher Education Teaching Excellence, and Ohio Magazine's Excellence in Education. Dr. Marie earned her Bachelor's of Science in mechanical engineering from University of Texas, Austin, her Master's from Youngstown State University, and her Ph.D. from University of Akron.

MC AND INTRODUCTION**DR. PATRICIA PRINCEHOUSE****CO-DIRECTOR, MARCH FOR SCIENCE CLEVELAND**

Co-Director of the March for Science Cleveland, evolutionary biologist Dr. Princehouse earned her masters in biological anthropology from Yale with a focus on Miocene hominoid paleobiology, and a PhD from Harvard, where she worked with Stephen Jay Gould and Richard Lewontin on macroevolutionary theory, and the history

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organisms can tell us about patterns and processes of evolution. Princehouse grew up on a farm near Dayton, Ohio, and has always had a keen interest in the natural world, especially animals both fossil and modern. Princehouse has received many teaching awards, and in 2003 was honored with the National Center for Science Education's "Friend of Darwin" award for helping preserve the integrity of Ohio's public school science curriculum. She is currently working on a book titled *Can Evolution Help You Choose a Puppy?*, which draws on both her scientific work and her primary hobby of dog sports, a world in which she has earned international prominence for her breeding program in Great Pyrenees and Pyrenean Shepherd dogs across a range of performance sports, with 4 dogs on world agility teams, one of whom won 2 Gold medals and best overall (midi size) at the 2011 World Agility Championship. Dogs of her breeding have won over 1000 performance titles across the sports spectrum from tracking and herding to disc dog, weight pull and dock diving, as well as countless professional working dogs in fields such as LGD, SAR, herding and medical service dogs. She has also been active in dog welfare and rescue. Dr. Princehouse is Director of the Evolutionary Biology program and Origins Sciences major at Case Western Reserve University, where she served on the task force to create the innovative general education program SAGES (Seminar Approach to General Education and Scholarship). She is also Outreach Director for the Institute for the Science of Origins, a joint project of CWRU, the Cleveland Museum of Natural History, and ideastream.

MR. MĀRTIŅŠ KRĒBS

CO-DIRECTOR, MARCH FOR SCIENCE CLEVELAND



Young artist, fervent science enthusiast and Co-Director of the March for Science Cleveland, Marty Krebs runs Tri-C Cleveland's fab lab, the Ideation Station. This 2,400-square-foot facility was designed to promote innovation, creativity and design, and facilitate mastery of new and emerging technologies, and serve as a springboard for entrepreneurship within the community and a portal for project-based, hands-on STEM education. A native of California transplanted to Ohio. Mr. Krebs earned his Bachelors of Fine Arts from Kent State University in 2015 and uses his broad knowledge base and intellectual curiosity to bridge the personal and the public, juxtaposing the inner world of the creative artist with the outer dimension of human beings as social, economic and environmental actors. He has particular passion for using science to problematize the concept of the "natural environment" as an integral part of art in diverse media, as in his installation piece inspired by the modern lawn: "A Growing Problem," and "Aggrandizement: The Organic Growth of Artificiality" and "Chrono-Monitare" a visual essay on our "throw away" culture. One of the concepts that matters most to him is that we are all humans, regardless of the lines we have drawn, sharing the same rocky sphere flying

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Informed by his Baltic family background -an ethnicity from an oppressed, conquered, re-conquered, stubbornly independent, and then finally freed Baltic state, he has grown acutely aware of historical context and human behavior on a geographic and political scale. Recognizing the privilege and power unconsciously given a straight white male in modern America, he strives to pull down these walls and use what power he has justly, to raise others to a similar quality of life. Intrigued by politics through his teens, he has spent thousands of hours contemplating solutions to the problems humanity faces today. His favorite quote is from Nelson Mandela: "An attack on freedom anywhere, is an attack on freedom everywhere."

ALTERNATE SPEAKER

DR. GLENN STARKMAN

DIRECTOR AND PROFESSOR, INSTITUTE FOR THE SCIENCE OF ORIGINS, CASE WESTERN RESERVE UNIVERSITY



Director of the Institute for the Science of Origins, and Professor of Physics and Astronomy at Case Western Reserve University. Glenn Starkman earned his Bachelor of Science degree from the University of Toronto in his hometown before going on to Stanford University for his Ph.D. His research interests lie in Theoretical Physics: Cosmology, Particle Physics and Astrophysics and has ranged widely across these fields from looking for exoplanets to the Higgs boson. He is well-known for his popular science talks address a wide range of scientific issues. He is especially intrigued with how we look at galaxies and see that the gravity of the ordinary matter can't possibly stop them from flying apart. We look at clusters of galaxies and come to the same conclusion. In fact, we need dark matter to make those structures in the first place. Yet the dark matter detectors we have built for the last 30 years have consistently failed to find dark matter, and we've failed to make dark matter at the Large Hadron Collider in Geneva. So what could that dark matter be? And how could we look for it? When he isn't searching for evidence of non-trivial universal topology and studying differences between General Relativity and modified theories of gravity, he's investigating the future of life and thought in the universe.

SOCIAL MEDIA AND EMAIL



We extend our gratitude to the March for Science Chicago for sharing their website code