

## Mike Massimino

Former NASA Astronaut, Columbia University Engineering Professor

Mike never gives the same talk twice, and enjoys working with each client to craft a talk that will include stories that will hit the mark for their event. Here are a few examples:

### **Be Ready for the Future: Change is Inevitable, Accept and Embrace It**

Companies go through reorganizations and changes to grow their business and prepare for future opportunities in the changing marketplace. Often these transformations are met with resistance by team members who are happy with the way things are, but leadership needs to clearly communicate the benefits of these changes to gain buy-in. Mike relates changes in the space program to changes in today's business world. During his career, NASA pivoted from working independently to embarking on global partnerships with the space faring countries of the world including Russia, and commercial partnerships with private space companies. Leadership made it clear that although many would be uncomfortable with these changes, they were needed to secure the future of space exploration, improve international relations, and stimulate a new space economy. Mike encourages audiences that although they may have an initial reluctance to accept change, they should embrace it as an opportunity for future greatness and success.

### **Being Resilient and Adaptable in Challenging Times: When you think all hope is Lost, Find Another Way Around**

Sometimes forces out of our control can make moving forward difficult. In spite of our best efforts we often get knocked down repeatedly. But we need to find a way around that next obstacle. Mike encourages audiences: When the odds are against you, do it anyway. Mike's dream of becoming an astronaut began when he was six years old watching Neil Armstrong take the first steps on the moon. The path to achieving this dream was wrought with unexpected challenges, failures, disappointments, and self-doubt. Mike was rejected three times by NASA including a medical disqualification which Mike overcame by teaching his eyes and brain to "see better." His persistence paid off when he was selected to be an astronaut on his fourth try. This same resilience was needed after earning his astronaut wings to persevere through the setbacks, tragedies, and technical challenges that Mike experienced in his astronaut career. Mike stresses that as long as you keep trying, no matter the obstacles, achieving a goal is possible.

### **The Team's Success is Your Success: You Cannot do this Alone, You will Succeed or Fail as a Team**

An organization's goals are only obtainable if everyone on the team works together. Individual accomplishments are needed, but the success of the team is most important. In our complex world, not everyone can be good at everything. But by pooling our abilities, we can be good at everything as a team. Mike conveys how he and his colleagues worked together with a culture of admitting mistakes and bringing forward concerns without worry of embarrassment or finger pointing. Providing help to teammates was not considered to be a burden, but rather a way to make the team stronger. When Mike broke a critical piece of equipment while repairing the Hubble Space Telescope during his final spacewalk, his team was there to help. Rather than blaming Mike, the ground control team and the astronauts in space worked together with him to come up with an innovative solution that saved the day and the mission. Although not every problem has an obvious solution, teamwork can help us with overcoming unforeseen challenges. Mike communicates to audiences how the NASA models for teamwork and leadership can be applied to the business world and in life. When you need help, reach out to your own "Mission Control Center," and be "Mission Control" for others.

### **Gaining that Competitive Edge: Accepting AI and New Technology in the Workplace**

AI and new technology is all around us. It can be intimidating. But it can also provide opportunities for growth and improve our decision making. The Space Shuttle was a manually controlled spacecraft. Very little computing power was available and astronauts and flight controllers were responsible for operations and decision making during high stakes situations. In today's spaceships, AI performs many of the decision making tasks previously done by astronauts. But the path getting there was not easy as astronauts were accustomed to being in total control of their spacecraft. The road to acceptance was through demonstrated benefits such as increased safety, improved performance, and reduced training time. Mike encourages audiences to embrace new technologies and AI to give them the competitive edge they need in meeting the challenges of a dynamic and uncertain world.

### **Innovating for an Uncharted Future: Make your Workplace a Laboratory where Everyone has a Voice**

In the challenging world in which we live and work, the problems we face are complex. Growing our businesses in an uncharted future requires innovation. Mike found that innovation at NASA came through diversity of thought, and everyone having a voice. If everyone thought the same way we would have never landed on the moon. To prepare for their spacewalks, Mike and his team trained in the largest pool in the world - The Neutral Buoyancy Laboratory. At first Mike was confused as to why the facility was called a "laboratory." A more appropriate name seemed to be "really big pool." But after time, Mike realized that it was a laboratory - a place where innovative ideas would be put forward and tested. During a training session, if the team could figure out a way to save even one minute of spacewalking time it would be a significant accomplishment. And everyone had a voice, including the new people. Not all ideas were good, but leadership never crushed those ideas. They responded with "thank you" and "keep bringing ideas forward." Because once you crush an idea, the person is likely to stay silent in the future, and the team will not get the useful idea when it eventually comes. Mike is clear: innovation is only possible when a diverse group of people exchange ideas and everyone has a voice. Mike shares examples of how this approach worked when he was a rookie, and when he was the leader of a team trying to uncover innovative ways to meet current and future challenges in space..

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