

Creating Breakthrough Solutions (1 hour)

- Are you looking to protect your job by adding more value to your employer?
- Are your products and services fully differentiated in the market place?
- Do you face complex, multi-disciplinary problems along with the additional constraints of a politically charged business environment?
- Are you looking to create a breakthrough in a business model, a technology, a process, a service or a market?
- Does your career, your organization or your business need a competitive edge?
- Are you a leader in government and want to apply innovation to the local economic issues?

Scott Burr, Principal Innovation Consultant for Hubenthal Burr Associates and Six Sigma Master Black Belt will address how to create breakthrough solutions to highly complex problems whether they are in business, in government, in your career or in technology. Throughout his career Scott has been called “fearless” when addressing complex, difficult or highly challenging business and technology problems. He has made a practice of finding high-value, “reputation-making” problems that others would not touch – and then solved them. But in 1998, he encountered an obscure Russian methodology that accelerated his ability to solve complex problems. After twelve years of practical application of this method and of development with other problem solving pioneers, he has adapted this method to a western mindset and reveals the most critical mindsets, techniques and personal characteristics required to create breakthrough solutions in this overview of the emerging science of problem solving: Structured Innovation.

In this unique talk, Scott Burr will discuss

- Common myths and beliefs about innovation and problem solving that can hurt your ability to solve problems
- How psychological inertia, like Newton’s inertia, is a property of your thinking and your mindset that can be used to identify opportunities and deeply understand problems
- Structured Innovation from the 50,000 foot view
- The ideal final result and how to use it to create better solutions
- How underlying social dynamics drive people and organizations (especially in aerospace, government or healthcare) to shy away from solving problems and the best way to counteract these dynamics
- How to handle the inevitable secondary problems created by a breakthrough solution
- The new scientific research that reveals the most effective mindsets and personal characteristics of great problem solvers

If problem solving and innovation are a part of your job then this is a must see presentation.

Who can benefit?

- Engineering Professionals
- Business Leaders
- Technology Developers
- Problem Solvers
- Entrepreneurs
- Inventors
- Government Leaders
- Healthcare Professionals

Scott Burr

Principal Innovation Consultant and Six Sigma Master Black Belt



Scott Burr is a co-founder and Principal Innovation Consultant for Hubenthal Burr Associates (HBA). Scott is a thought-leader for the emerging field of Structured Innovation and is a certified Six Sigma Master Black Belt. Mr. Burr speaks on a broad range of topics related to Leadership, Technology Development, Six Sigma, Culture Change, Change Management and Structured Innovation.

Prior to joining HBA, Scott worked at Space Systems/Loral (SS/L), a leading full-service satellite manufacturer. He served in the roles of Senior Process Improvement Specialist, Section Supervisor and Process Manager. By leading the charge towards Lean Manufacturing and Six Sigma in the high-reliability electronics manufacturing area, Scott oversaw productivity improvement by a factor of six over eight years. As key initiator, strategist, and team leader in this challenging environment and using culture integration strategies, Scott positioned the electronics assembly department at Space

Systems/Loral to compete in a consolidating industry.

During his twenty three years of experience Scott held key positions in various industries such as Quality Manager at Rain Bird Consumer Products, Manager of Manufacturing at US Computer Systems, and Mechanical Engineer in the machine tool industry including stints in entrepreneurial start-ups and university laboratories.

Throughout his career, his fascination with and devotion to the relationship between innovation, design, reliability, quality, manufacturing process performance and people has helped Mr. Burr improve financial performance as well as enhance corporate culture. His team and individual efforts have booked millions of dollars in savings and revenues for his clients and his companies. Scott has a rare blend of creative and technical capabilities. His passion is to create powerful insights and solutions that unleash leadership talent, leverage cutting-edge knowledge, integrate corporate culture, and provide a competitive advantage in innovation and productivity.

Mr. Burr is the Professional Development Chair for the American Society of Mechanical Engineers (ASME) for Silicon Valley and for the Pacific Northwest District. He facilitates and arranges professional development and leadership courses for hundreds of professional engineer attendees. For the past five years Scott has also been the Head Leadership Trainer for the North American Pacific Coast (three years) for the ASME. Scott began volunteering early in life serving a broad variety of non-profit organizations since age eleven.

Scott received a B.S. degree in Mechanical Engineering from Stanford University and later earned his certification as a Six Sigma Black Belt from the Juran Institute, a leading quality organization.

His personal interests include medicinal nutrition and the ancient cultures of Hawaii. He travels frequently to the Big Island to advance his studies and to enjoy the natural beauty

Available Presentations: *(1 hour to one day)*

- Creating Breakthrough Solutions
- Design For Six Sigma And Structured Innovation
- Design Optimization
- Getting To Seven Figure Success Using Six Sigma
- Design For Six Sigma Overview
- Predicting And Supporting Quality Performance By Using FEA Simulation With Six Sigma
- How To Improve Your Creativity: What Drives Your Thinking And Why
- Making Change Happen
- World Trends Affecting Your Engineering Future
- Basic Innovation Skills
- Innovation Agility And Problem Solving
- Basics Of Genetic Algorithms
- Monte Carlo Analysis
- Design Of Experiments
- Solving Tough Multidisciplinary Problems
- Six Sigma And Robust Engineering
- The Process-Design Connection; How Simple Design Choices Improve Quality
- Statistical Journey: Minitab Software Capabilities

The presentations above can be delivered in various formats:

- Technical talks
- Dinner meetings
- Seminars up to a full day
- Webinars up to a full day
- Combined Seminar/Webinar format
- Business/Board Meetings
- Executive Coaching

Local Travel Distance:

I am willing to travel to Washington, Oregon, California, Idaho, Nevada, and Arizona depending on the level of interest of the ASME organization and my schedule.

Long Distance Travel:

I travel to most major ASME events and occasionally travel to Michigan on business. I may be able to dovetail a talk to a local section during long distance travel to Michigan (and nearby States), ASME Congress, IMECHE, or Leadership Training Conferences.

Webinar Preference:

I am willing to deliver an event to any ASME organization in any time zone in the world by webinar.