

# UTAH ROLLS OUT RED CARPET FOR LEADERS IN SCIENCE AND TECHNOLOGY

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## **Utah Rolls Out Red Carpet for Leaders in Science and Technology**

*Ten innovative leaders will be honored at annual gala*

Salt Lake City, UTAH – Much as Sundance recognizes innovators in film, Utah recognizes innovators of science and technology. Governor Gary R. Herbert along with the State Science Advisor and the State

Advisory Council on Science and Technology announced today the 2012 winners of the Governor's Medals for Science and Technology.

“Utah was built on a heritage of innovation. We have the pleasure of recognizing the leaders who strengthen this foundation.” said Governor Gary Herbert. “The tireless efforts of these innovative individuals continue to accelerate Utah's economy.”

The Governor's Medals for Science and Technology are awarded to residents and companies who have provided distinguished service and/or made significant contributions toward advancing scientific knowledge, education and industry in Utah and the nation.

The award ceremony will be held on Thursday January 17, 2013, from 5:00 pm to 8:30 pm at the Discovery Gateway, children's museum.

Medals are awarded in fields of academia, science education, industry and government. This year's recipients are:

#### Academia:

- Dr. Thure Cerling, Professor of Geology and Geophysics at the University of Utah. Dr. Cerling has greatly advanced geological, hydrological, and nuclear waste science in Utah
- Dr. David Kieda, University of Utah Professor and Department Chair of Physics. Dr. Kieda pioneered techniques for observing high-energy cosmic rays
- Dr. Geraldine Mineau, Investigator and Research Professor in the department of Oncological Sciences at the University of Utah and the Huntsman Cancer Institute. Dr. Mineau developed a one of a kind genetic research tool for human disease

## Science Education category:

- Dr. Adam Johnston, Professor of Physics at Weber State University. Dr. Johnston is the founder of “Science Education at the Crossroads”
- Amy Pace, Chair of the Department of Science of the Open High School of Utah. Amy is the science curriculum developer for the Open High School of Utah

## Industry category:

- Dr. Theodore Stanley, managing director of Upstart and Founder of Anesta and ZARS. The “Stanley Research Foundation” has donated more than five million dollars to the University of Utah and other universities
- Ceramatec is a pioneer in research and development in oxygen and hydrogen generation systems

## Government category:

- Ted McAleer, Executive Director of Utah Science Technology and Research initiative (USTAR). In six years Ted has grown USTAR from an idea to a fully functioning innovation driver for Utah’s economy
- Nicole Toomey Davis, CEO of Enclavix LLC and former Director of the Centers of Excellence Program / Technology Commercialization and Innovation Program. Nicole was instrumental in the enhancement of the Centers of Excellence Program, and the development of the Utah Fund of Funds

## Lifetime achievement:

- Scott Anderson, President and CEO of Zions Bank. Scott has worked diligently and tirelessly to create more high paying jobs in Utah. He also led the vision and charge to create the Utah Science Technology and Research initiative
- The Governor’s Medal award program was initiated in 1987 and nominations are reviewed by the State’s Science Advisory Council before formally presenting winners to the Governor

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**Editors Note:** Individual interviews can be arranged with any of the recipients at a time other than the Medals Ceremony if a more in depth story is of interest. Each of the recipients will be available for interviews between 5:00-5:45 pm at the Discovery Gateway children’s museum. Additional interviews can be

arranged after the event, or the honorees can be contacted directly.

Information on the Recipients of the Governor's Medals:

### **Thure Cerling University of Utah**

Dr. Thure Cerling is a geochemist and a distinguished professor of geology and biology at the University of Utah. He uses isotopes — different forms of chemical elements — to study the ancient environments and diets of human ancestors; how global changes in climate and plant ecosystems influenced human and animal evolution; the dating of landscapes from tropical to Arctic zones; animal physiology for wildlife conservation purposes; and for forensic purposes such as helping identify murder victims. His field work has taken him to all seven continents. He has served on federal and state boards that review nuclear waste disposal plans.

### **David Kieda University of Utah**

Dr. David Kieda is professor and chair of physics and astronomy at the University of Utah. Since 1988, he has worked to establish the university's astronomy program. He helped set up a public observatory on campus and a high-altitude, research telescope in southern Utah. He enrolled the university in major astronomy efforts like the Sloan Digital Sky Survey. He

leads several major gamma-ray observatory projects. Kieda discovered numerous gamma ray sources, including exploding stars and black holes. He pioneered several techniques, used worldwide, for observing high-energy cosmic rays and gamma rays, and is co-discoverer of the highest-energy cosmic ray ever observed. Kieda has 15 patents, including safer electrodes and other devices made by a Utah company and used in electrosurgery, during which tissue is cut by electrical current rather than mechanically by a blade. Photo credit: Lee Siegel

### **Geraldine Mineau University of Utah/Huntsman Cancer Institute**

Dr. Geraldine Mineau, is a demographer, Huntsman Cancer Institute investigator and research professor of oncological sciences at the University of Utah. She helped put Utah in the forefront of research to identify human disease genes by developing the Utah Population Database since it was conceived in the 1970s. The database, which Mineau directed during 1994-2010, contains 19 million records, including extensive family histories, vital statistics and medical information. The database has enabled scientific advances dealing with several cancers (including breast, colorectal, skin, prostate and pancreatic cancers), autism, obesity, inflammatory bowel disease, Alzheimer's disease, macular degeneration, longevity,

fertility and prenatal care. Photo Credit: University of Utah

### **Adam Johnston Weber State University**

Dr. Adam Johnston is a professor of physics at Weber State University where he teaches courses in general physics and science education. His research interests are in the learning of science concepts and processes, leading to publications in journals such as American Education Research Journal, Science Education, and Children, Youth, and Environments. His work has led him to co-organize a national conference in science education reform, Science Education at the Crossroads ([sciedxroads.org](http://sciedxroads.org)), which hosts about 50 science educators from around the country at each meeting. Adam works closely with teaching majors at Weber State, as well as with practicing teachers locally and around the state through various programs and presentations. He has also been active in community outreach, working closely with schools, Weber State's Center for Science and Math Education, the Ott Planetarium, and other local organizations and initiatives. This has included a program he started in 2007 called "Science in the Parks," which brings a carnival of science activities into parks where Ogden School District serves free lunches during the summer months.

## **Amy Pace Open High School of Utah**

Amy Pace lives in beautiful Bicknell, Utah with her husband Jamie and three of her four children. Amy has 14 years of teaching experience, and currently teaches Biology and Chemistry. She received her BS in Biology from Southern Utah University in 1998. Previously, she taught at Wayne High School in Bicknell, Utah and at Desert Hills High School in St. George, Utah. She currently teaches for the Open High School of Utah; a fully online public charter school.

## **Theodore Stanley Upstart Ventures**

Dr. Ted Stanley, is a faculty member and Professor of Anesthesiology at the University of Utah. He is recognized as an international expert on intravenous anesthesia, opioid analgesics, drug delivery systems and wildlife immobilization techniques. Dr. Stanley has published hundreds of research manuscripts, abstracts, chapters, and books and visited, lectured, and consulted at medical centers, veterinary schools and zoos all over the world.

Stanley became a “serial entrepreneur” 30 years ago and has founded or co-founded ten life science companies to date. One of Dr. Stanley’s companies, Anesta, produced a pain product – Actiq – which has helped many thousands of patients and resulted in billions of dollars in revenue and tens of millions of dollars of royalties to the University of Utah.

## **Ceramatec**

Ceramatec, Inc. was founded in 1976 and was a spinoff from the University of Utah. As an R & D business, Ceramatec's core strength is in electrochemistry and advanced materials innovation and technologies. Ceramatec's focus is in technology development and commercialization in the Energy and Environment sectors.

Ceramatec has pioneered research and development in a variety of technologies based on solid state ionics and electrochemical systems such as oxygen sensors, oxygen and hydrogen generation systems, fuel cells, biomass conversion to fuels, and upgrading crude oil with ongoing collaborations with corporations and Government organizations.

Ceramatec has established a track record of developing innovative products seeded by federal government and corporate grants to speedily move these technologies into commercial products.

Ceramatec has become a worldwide leader in the development of ionic technologies and devices through hard work and a strong commitment to innovation and R & D.

Doug Coors is the Chief Executive Officer of Ceramatec. Since 2008 Mr. Coors has been overseeing the research and development business operations for Ceramatec.



Dr. Ashok Joshi has been with Ceramatec for the last 28 years and is the acting President. In the last ten years, Ceramatec has successfully spun off nine different business entities. Dr. Joshi's professional life has been dedicated to the development and commercialization of ionic technologies.

Dale Taylor has been with Ceramatec for the last 23 years and is Vice President of the Oxygen and Industrial Gases division that includes well over 50% of company business and operations. Mr. Taylor is responsible for the development and commercialization of new products for production of Oxygen and other industrial gases.

### **Ted McAleer USTAR**

Ted McAleer, is the Executive Director of USTAR. Prior to USTAR, McAleer was the Director of Business Development for The University of Utah's Technology Venture Development organization. Ted has 20 years of experience in technology innovation; business development; and product, services and operations management in both start-up and mature corporations. He has been Chief Operating Officer for Teleoptic Digital Imaging, LLC and the Sr. Director of Implementation services at Campus Pipeline, Inc. He has also worked for SunGard SCT, Procter and Gamble, PepsiCo. and the US Army. He holds a MBA from Harvard Business School, a Master of

Engineering from the University of Virginia and a BS in Engineering Management from the United States Military Academy at West Point.

### **Nicole Toomey Davis Enclavix**

Nicole Toomey Davis is the President, CEO and cofounder of Enclavix, LLC, a machine intelligence software company. She is the former President, CEO and co-founder of DoBox, Inc., launched in 1999 and successfully acquired in 2002.

Ms. Davis served for six years as the Director of Utah's COE / TCIP Program for GOED, bringing her experience as an entrepreneur to help accelerate the commercialization of Utah's University-based technologies.

Ms. Davis has served on industry boards including MWCN, UTC, and the Women Tech Council and has been included seven times in the vSpring v|100. Ms. Davis holds a BS in Electrical Engineering from Brigham Young University and an MBA from the Stanford Graduate School of Business.

### **Scott Anderson Zions Bank**

A. Scott Anderson is president and chief executive officer of Zions First National Bank. Zions Bank is Utah's oldest financial institution and is the only local bank with a statewide distribution of branches. Zions operates 107 full service branches throughout Utah and

25 full service branches in Idaho. In addition to a wide range of traditional banking services, Zions offers a comprehensive array of investment, mortgage, and insurance services and has a network of loan origination offices for small businesses, nationwide. Founded in 1873, Zions Bank has been serving the communities of the Intermountain West for nearly 130 years.

A native of Salt Lake City, Anderson joined Zions Bank in December of 1990.

Anderson received a bachelor's degree in philosophy and economics from Columbia University in New York. He also received a master's degree in economics and international studies from Johns Hopkins University in Baltimore, Maryland.

Active in community affairs, Anderson is currently serving on a number of business and non-profit boards.

### **### About the Utah Governor's Office of Economic Development**

The Governor's Office of Economic Development (GOED) charter is based on Governor Gary Herbert's commitment to economic development statewide. The mandate for this office is to provide rich business resources for the creation, growth and recruitment of companies to Utah and to increase tourism and film

production in the state. GOED accomplishes this mission through the administration of programs that are based around industries or “economic clusters” that demonstrate the best potential for development. GOED utilizes state resources and private sector contracts to fulfill its mission.