



## MONTANA AEROSPACE DEVELOPMENT ASSOCIATION

### VISION

The vision of MADA is to make aerospace technology industry a major component of Montana's economic base.



# 3<sup>rd</sup> Annual Montana Aerospace Technology Conference

GranTree Inn - Bozeman, Montana

April 3-4, 2006

*“Expanding Montana’s aerospace business – establishing and executing common goals – taking it to the next level”*

## Agenda

### Monday, April 3<sup>rd</sup>

12:00 noon

Lunch

12:30 p.m.

Speakers

**Jim Kambich**, Chairman of the Board  
Montana Aerospace Development  
Association

**Dave Micheletti**, Past President, MADA

**Dr. Ralph Hutcheson**, President, MADA

**Tony Preite**, Director, Montana  
Department of Commerce

**Tony Trunzo**, Senior Vice President,  
Corporation Strategy and Development,  
FLIR Systems, Inc.

**Ken Hilderbrand**, Small Business  
Programs, Lockheed Martin Aeronautics  
Company

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*“Expanding Montana’s aerospace business – establishing and executing common goals – taking it to the next level”*

## Agenda

**Monday, April 3<sup>rd</sup>**

**2:00 p.m.**

### **Montana Aerospace Industry Accomplishments**

- Challenges overcome to get where we are today
- Needs and pitfalls

**Dave Micheletti**, Moderator  
Vice President, MSE Technology Applications, Inc.

**Dr. Dave Klumpar**, Director, Space Science Engineering Laboratory, Montana State University – *Major Aerospace Related Activities at MSU*

**Dr. Bill Hiscock**, Director, Montana Space Grant Consortium – *Montana Space Grant Consortium Activities Statewide*

**Dr. Roly Redmond**, The University of Montana – *Major Aerospace Related Activities at The UofM*

**Dr. Randy Equall**, General Manager, Scientific Materials Corporation/FLIR Systems, Inc. – *Future Growth Plans Involving Scientific Materials’ Crystals and Components*

**Stuart Blundell**, Chief Operating Officer, Visual Learning Systems – *Conquering the World with Geospatial Automation*

**Dr. Chris Merkel**, Vice President and Chief Operating Officer, S2 Corporation – *Spatial Spectral Technology for Signal Processing*

**Gregg Switzer**, AdvR, Inc. – *Building A Business Around Innovative Solid State Lasers*

**3:45 p.m.**

**Break**

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4:00 p.m.

### Resource Panel

**Andy Poole**, Montana Department of Commerce  
**Dave Desch**, Montana Board of Research and Commercialization Technology  
**Herb Kulow**, Montana Board of Investments  
**Dr. Will D. Swearingen**, Montana State University – TechLink  
**Steve Holland**, Montana State University – Montana Manufacturing Extension Center

### Poster Session

**Dr. Alex Philp**, GCS Research – *Smart Data: Real-time Geospatial Sensor Intelligence for Distributed Geospatial Common Operational Picture*  
**Dr. Doug Cairns**, et al, MSU Mechanical and Industrial Engineering Department – *UAV Pod for Boundary Layer Atmospheric Research*  
**Jason Harwood**, MSU Mechanical and Industrial Engineering Department – *Finite Element Analysis of Ultra-low CTE Optical Materials for Aerospace Applications*  
**Kuldeep Nandurkar**, MSU Mechanical and Industrial Engineering Department – *Stress Determination in High-Energy Laser Coatings for Ultra-lightweight Optics for Aerospace Applications*  
**Dr. Corby Anderson**, Montana Tech Center for Advanced Mineral and Metallurgical Processing – *Titanium and Free-form Fabrication*  
**Dr. Robert Crabtree**, Yellowstone Environmental Research Center – *Estimating Forest Structure with Radar*  
Ian Fairweather, HyPerspectives – *High Resolution Hyperspectral Data for Remote Measurement of Ecological Variable: Evaluation and Applications*  
**Dr. Dave Klumpar**, MSU Space Science and Engineering Laboratory – *SSEL Hardware Display (Satellites, Rockets, Balloons, International Space Station)*  
**Dr. Charles Kankelborg** and **J. Lewis Fox**, MSU Space Science and Engineering Laboratory – *Rocket Science in the Rockies: The Successful Flight of the MOSES Sounding Rocket*

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### Poster Session

**Keith Mashburn**, MSU Space Science and Engineering Laboratory – *The Space Operations Center at Montana State University*

**Brian Larson**, MSU Space Science and Engineering Laboratory – *Space Hardware and Access to Space in Montana*

**Danny Jacobs** and **Marcus Zoeller**, Montana State University – *GPS for Locating Small Satellites*

**Joey Key** and **Tyson Littenberg**, MSU Montana Space Grant Consortium – *The Space Public Outreach Team (SPOT): Bringing Current NASA Missions to Montana K-12 Classrooms*

**Mike Lenander**, MSU Montana Space Grant Consortium – *BOREALIS High Altitude Balloon Program*

**Dave Micheletti**, MSE Technology Applications, Inc. – *Mariah Hypersonic Wind Tunnel Project*

**Dave Micheletti**, MSE Technology Applications, Inc. – *Launch Bar for Navy Aircraft Carriers*

**Robert Hyatt**, Resodyn Corporation – *Defense-Related R&D at Resodyn Corporation*

**Dr. David McKenzie**, MSU Physics Department – *The MSU Connection to HASA Solar Physics Missions*

**Larry Mortensen**, Inland Northwest Space Alliance – *Minotaur Free-Flyer Space Launch Initiative*

**Ross Bricklemeyer**, MSU Land Resources and Environmental Sciences – *Terrestrial Carbon Sequestration in Montana Agricultural Systems*

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5:30 p.m.

Social

7:00 p.m.

CEO Dinner

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## Agenda

### Tuesday, April 4<sup>th</sup>

- 8:00 a.m.** Continental Breakfast
- 9:00 a.m.** Technical Training to Meet Work Force Needs  
**David Gibson**, Moderator, Associate Commissioner of Higher Education, Montana University System  
**John Cech**, Dean, Billings College of Technology  
**Dr. Daniel Bingham**, Dean, Helena College of Technology  
**Dr. Mary Moe**, Dean, Great Falls College of Technology
- 10:15 a.m.** Break
- 10:45 a.m.** Partnering with Prime Contractors  
**Larry Hall**, Moderator, President/General Manager, S&K Electronics, Inc.  
**Michael Chang**, Supplier Programs Deputy, Space Systems Small Business Advocate, Lockheed Martin Space Systems Company  
**Dick King**, President, Montana Economic Developers Association  
**Representative**, Sikorsky, A United Technologies Company
- 12:00 noon** Lunch
- 1:00 p.m.** Round Table Discussions  
**Remote Sensing**  
**Dr. Joe Shaw**, Moderator  
Montana State University, Electrical and Computer Engineering Department  
**Manufacturing Issues**  
**Steve Holland**, Moderator  
Montana State University – Montana Manufacturing Extension Center  
**Defense Related R&D**  
**Ray Friesenhahn**, Moderator  
Montana State University - TechLink

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## Agenda

2:00 p.m.	<b>Round Table Discussions</b> <b>Remote Sensing</b> <b>Dr. Joe Shaw</b> , Moderator Montana State University, Electrical and Computer Engineering Department <b>Manufacturing Issues</b> <b>Steve Holland</b> , Moderator Montana State University, Montana Manufacturing Extension Center <b>Defense Related R&amp;D</b> <b>Ray Friesenhahn</b> , Moderator Montana State University – TechLink
3:00 p.m.	<b>Break</b>
3:15 p.m.	<b>Taking It To The Next Level</b> <b>Dr. Mike Reilly</b> , Facilitator Montana State University
4:00 p.m.	<b>Adjourn</b>

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## **Presenters**

**Speaker:** [Dr. Daniel J. Bingham](#)

**Panel:** *Technical Training to Meet Work Force Needs*

Dr. Bingham is the Dean/CEO of the University of Montana – Helena College of Technology. He has spent the last 17 years in higher education instruction and leadership at a variety of institutions throughout the southwest, where he taught industrial technology and held positions such as Executive Dean, Associate Vice President of Business, Assistant to the President and College legislative liaison, and Technology Division Chair. Dr. Bingham has delivered numerous keynote addresses and presentations at higher education institutions and national conferences on topics such as institutional and personal leadership; the use of technology in the delivery of educational pedagogy; and education in industry and the future job market.

Dr. Bingham received his Ph.D. from The University of Texas at Austin in Educational Administration and Leadership, concentrating on institutional governance in community college systems. This was preceded by an M.Ed. in Educational Leadership and a B.S. in Applied Science with a focus on technical instruction in community colleges.

**Speaker:** [John Cech](#)

**Panel:** *Technical Training to Meet Work Force Needs*

John Cech received a B.S. degree from Eastern Montana College in 1985 and a M.N.M. from Regis University in 2000 (2002).

**Speaker:** [Dave Desch](#)

**Panel:** *Resource Panel*

David P. Desch is the Executive Director of the Montana Board of Research and Commercialization Technology and has served in that capacity since the organization’s start-up in 2000. Prior to his position with the Research and Commercialization program, Mr. Desch was a Principal of Interwest Consulting, a Helena-based management consulting and strategic planning firm. Other positions held by Desch include Senior Investments Manager at the Montana Science and Technology Alliance, Interstate Commerce Commission Practitioner, and Wilderness Ranger with the U.S. Forest Service. Desch received a B.S. degree from Colorado State University and a Master’s degree from the University of Montana.

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**Speaker:** [Dr. Randy W. Equall](#)

Dr. Equall is General Manager of Scientific Materials Corp. in Bozeman, Montana, a subsidiary of FLIR Systems, Inc. He has been with Scientific Materials Corp. for the past 11 years, previously serving as vice president for operations and director of technology where he managed multiple departments responsible for product development, manufacturing, quality assurance, and research. Dr. Equall has more than 13 years experience developing and studying doped crystalline materials for use in opto-electronic applications. He has directed research while serving as PI or Co-PI on more than fifteen research contracts and has supervised both graduate and undergraduate students performing research at Montana State University. Dr. Equall is author or co-author on more than sixty conference papers and publications, including more than twenty in peer reviewed technical journals and is co-inventor on two U.S. Patents.

Dr. Equall received his Ph.D. from Montana State University in Physics, where he conducted research on materials for opto-electronic applications including solid-state lasers, optical memories and optical signal processing. Prior to obtaining his Ph. D. he received a B.S. and M.S. in Physics from Montana State University.



**Speaker:** [Ray Friesenhahn](#)

**Panel:** *Breakout Session – Defense Related R&D*

Ray Friesenhahn has more than 20 years experience in evaluating, developing, and managing diverse technology programs. His defense industrial experience includes R&D, engineering and manufacture of high power radar and microwave systems and components at Hughes Aircraft EDD (now part of L-3 Communications), where he contributed significant performance and operational improvements to the Navy's Tartar system radar, and was responsible for engineering the advanced high-power GTWT that enabled the upgraded Patriot Missile System Radar. At Martin Marietta Advanced Development and Technology Operations, he researched classified HPM weapons technologies, as well as proposed advanced subsystems for LOCAAS (Low Cost Autonomous Attack [formerly Anti-Armor] Submunition). Later, he served as Marketing Director for a start-up environmental electronics firm in San Diego, and later developed laser technology business plans, and performed international market studies of computer network technology. He previously served as Director of the Industrial Associates Program for the University of Texas College of Natural Sciences. Friesenhahn has specialized expertise in photonics and sensors, and a knowledge base that extends to many other technical fields.

Prior to joining TechLink, Friesenhahn was Senior Technology Transfer Manager for the NASA Mid-Continent Technology Transfer Center in Austin, Texas, where he evaluated NASA technologies, performed in-depth market assessments for new technologies and provided technical business assistance throughout a 14-state region. His education includes a B.S. in Physics from the University of Texas Austin, graduate work in Physics at Penn State where he was appointed Lecturer in Physics, and an MBA in Marketing and Entrepreneurship from the University of Texas Austin.

**Speaker:** [David Gibson](#)

**Panel:** Technical Training to Meet Work Force Needs

David Gibson is the Associate Commissioner of High Education for Economic Development with the Montana University System. After five years in the U.S. Army as a member of the U.S. Army Rangers, Mr. Gibson was employed as a manufacturing manager for Frito-Lay Manufacturing in Bakersfield, California; he also worked for Weyerhaeuser Corporation, the nation's second largest forest products company. In 2001 Mr. Gibson was appointed as Montana's first Chief Business Officer.

Mr. Gibson holds a B.A. in Applied Mathematics from Harvard University and an M.B.A. in Finance and Operations from Dartmouth University.

**Speaker:** [Larry Hall](#)

**Panel:** Education Infrastructure

Mr. Hall has been with S&K Electronics, Inc., a Tribally Owned firm, for the past 12 years and is President/General Manager, during which time he has overseen a three-fold growth in the company and the spin-off of an IT company. He has been involved with businesses and business development on the Flathead Reservation in Montana and in Indian country for over 30 years.

Mr. Hall received his undergraduate degree from The Evergreen State College in Olympia, Washington, and has completed further studies in Accounting and Business Management at Salish Kootenai College in Pablo, Montana, and the Tuck School of Business at Dartmouth.

Mr. Hall is president of the Native American Manufacturer Network, a not-for-profit business organization, and a member of the Montana Board of Research and Commercialization Technology. He previously served as a member of the National Advisory Board for the Small Business Administration, as Chairman of the Montana Manufacturer Extension Center advisory board, and as a member of the Minority Business Resource Advisory Committee for NASA.

**Speaker:** [William A. Hiscock](#)

William A. Hiscock is the Head of the Department of Physics at Montana State University, where he is a Professor of Theoretical Astrophysics. He has been a member of the faculty at MSU since 1984. He received B.S. in Physics from the California Institute of Technology, and his M.S. and Ph.D. from the University of Maryland. He held Postdoctoral Fellowships at Yale University, the University of Texas, and the University of California-Santa Barbara before arriving at MSU.

Since 1991, Dr. Hiscock has been the Director of the Montana Space Grant Consortium, NASA's higher education program in Montana, which now includes sixteen colleges and universities across Montana as members. He also directs the Montana NASA EPSCoR program, which strives to increase the number of Montana faculty and students working in NASA-related research programs. He is also Montana's state representative to the Aerospace States Association, appointed most recently by Lt. Governor Bohlinger.

In 2003, Dr. Hiscock was chosen to receive the Frank J. Malina Medal by the International Astronautical Federation, a worldwide award recognizing excellence in Space Education. In 2006, he received the National EPSCoR/IDeA Service Award, in recognition of his leadership in the NASA EPSCoR program at state and national levels.



**Speaker:** [Steve Holland](#)

**Panel:** *Resource Panel*

Steve Holland is Director of the Montana Manufacturing Extension Center at Montana State University – Bozeman. Prior to joining MMEC he was founder and principal of S.L. Holland Associates, Inc. in North Carolina, where he provided consulting services for large-scale change management using a virtual alliance of nationwide consulting expertise. Holland was employed by Alcoa (Aluminum Company of America) for 21 years where he was an engineer, business analyst, controller, and manager in a variety of capacities. Holland is a registered professional engineer.

Holland holds B.S. and M.S. degrees in Industrial and Management Engineering from Montana State University – Bozeman.

**Speaker:** [Dr. Ralph Hutcheson](#)

Dr. Ralph Hutcheson founded Scientific Materials Corporation in 1989. Located in Bozeman, Montana, Scientific Materials grows crystals for opto-electronics. Dr. Hutcheson has 45 years of experience in crystal growth, crystal fabrication, and laser materials; prior to founding Scientific Materials he worked for Union Carbide Corporation, Crystal Optics Research, RD Industries, Inc., and Solid State Lasers, Inc. Dr. Hutcheson is President of the Montana Aerospace Development Association.

Dr. Hutcheson received a B.S. in Mechanical Engineering from Montana State University – Bozeman and in 2003 was awarded an honorary doctorate in Science. He holds eight patents in crystal growth and has authored numerous technical publications.

**Speaker:** [Jim Kambich](#)

Jim Kambich is Executive Director of the Montana Economic Revitalization & Development Institute (MERDI), in Butte. MERDI focuses its efforts on economic development, education, and community development and redevelopment in Butte and southwest Montana. Kambich previously worked for Butte local government in a variety of capacities, including being the first director of the Business Development Center. This was the first business incubator program in the Northern Rocky Mountain Region and one of two municipally owned and operated incubators in the country. Kambich has a B.S. in Business Administration and Finance and an M.B.A. from the University of Montana.



**Speaker:** [Dr. Dave Klumpar](#)

Dr. Klumpar is Research Professor of Physics and Director of the Space Science and Engineering Laboratory at Montana State University. He has a B.A. in Physics and Mathematics and a M.S. in Physics from the University of Iowa and a Ph.D. in Physics from the University of New Hampshire.



**Speaker:** [Herb Kulow](#)

**Panel:** *Resource Panel*

Herb Kulow has been with the Montana Board of Investments for six years. He began his banking career in 1967 and has been the president of three banks with most of his banking career spent in Wyoming. He is a graduate of the University of Wisconsin and the Graduate School of Banking. Kulow also teaches commercial lending nationally for the Mortgage Bankers Association of America.

**Speaker:** [David A. Micheletti](#)

Dave Micheletti currently serves as Vice President and Senior Manager of MSE Technology Application, Inc.'s (MSE) Advanced Energy and Aerospace Division, and he is the Past President of the Montana Aerospace Development Association (MADA). He possesses a B.S. Degree in Engineering Science from Montana Tech and an M.S. Degree in Engineering Management from the University of Idaho. Upon graduating from Montana Tech in 1976, he joined the Boeing Aerospace Company in Seattle, WA; where he worked as an engineer on both the Air Launched Cruise Missile (ALCM) and Inertial Upper Stage (IUS) Programs. In 1978, he entered active military service in the U.S. Air Force as an Aerospace Engineering Officer working on both the Minuteman Missile Program at Malmstrom AFB in Great Falls, Montana, and the Space Shuttle Program at Vandenberg AFB in California. Upon leaving active Air Force service, Mr. Micheletti joined General Dynamics Space Systems Division in San Diego, California; where he worked as a Test Management Engineer on the Space Shuttle/Centaur Program. In 1985, he returned to Montana and Malmstrom AFB in a civilian capacity to work as a Systems Engineer on a major program to upgrade and modernize the Minuteman Missile System. In 1991, he joined MSE where he is leading several major aerospace/defense technology development programs, including the Mariah Hypersonic Wind Tunnel

Development Program which is the nation's only program developing a true-air hypersonic wind tunnel. Mr. Micheletti retired from the U.S. Navy Reserve at the rank of Commander.

**Speaker:** [Dr. Mary Sheehy Moe](#)

Mary Sheehy Moe has been Dean of Montana State University—Great Falls College of Technology since July 2001. Prior to assuming the deanship, Dr. Moe held faculty and administrative positions in a secondary and postsecondary education career spanning 27 years. Dean Moe's achievements at both levels have been recognized with the state's highest honors: in 1987 she was named Montana Teacher of the Year for her work as a high school English teacher and in 2005 she was designated the Michael P. Malone Educator of the Year for her contributions to higher education in Montana.

Dr. Moe earned a B.A. in English, an M.A. in Education, and an Ed.D. in Education—all from The University of Montana. She also has a minor in Library Science from Montana State University—Billings. Dr. Moe is particularly noted for her expertise in the area of intellectual freedom. In 1998, she received national recognition for her advocacy in the Northwest Region and was honored with the National Council of Teachers of English Intellectual Freedom Award. Dr. Moe is an enthusiastic advocate of the public and private benefits of higher education, especially two-year education.

Dr. Moe currently serves on several boards, including the Commission on Legal Education for the Montana State Bar, the Montana School for the Deaf and Blind Foundation, Benefits Healthcare, the Great Falls Area Chamber of Commerce, and Chairman of the Board for the United Way of Great Falls.



**Speaker:** [Andy Poole](#)

**Panel:** *Resource Panel*

Andy Poole is the Deputy Director of the Montana Department of Commerce. He has worked for the department for the last 25 years and has been primarily responsible for finance and technical assistance programs for business development. In addition to his duties as Deputy Director, Poole is the Administrator of the Business Resources Division, which is responsible for business development programs and services including business technical assistance, business finance, foreign trade activities, census and economic information, regional development, and research and development. Prior to his employment with the State of Montana, he worked for Crocker National Bank and Bechtel Engineering in San Francisco, California.

Poole received his degree in Industrial and Management Engineering from Montana State University in 1978 and is a certified Economic Development Finance Professional. He is a member of the Montana Manufacturing Extension Center Advisory Board, the Montana Economic Developers Association, the State/Tribal Economic Development Commission, and the State Workforce Training Grant Committee.



**Speaker:** [Tony Preite](#)

Anthony J. Preite, Montana Director of Commerce, was born and raised in Havre, Montana. He attended St. Jude's grade school, Havre Central High School, and graduated from Northern Montana College in 1963. He taught government and social studies and was coach/athletic director at Turner High School from 1964-1968.

In 1968, Mr. Preite accepted the position as Community Development Specialist, with Bear Paw Development in Havre, MT. His duties included coordinating economic growth activities and implementing the overall Economic Development Plan for Hill, Blaine, and Liberty Counties and Fort Belknap and Rocky Boys Indian Reservations in north central Montana. He was elevated to Executive Director in 1969.

From 1971-1973, he worked in Seattle, Washington, as Special Project Director, (Washington, Oregon, Alaska, Idaho, Montana, Arizona, and California) of the Economic Development Administration for the U.S. Department of

Commerce. He was instrumental in development of dozens of successful economic and community growth projects resulting in infrastructure improvements and the creation of hundreds of job opportunities in the multi-state area. In 1973, Mr. Preite returned to the Executive Director position with the Bear Paw Economic Development District.

Mr. Preite was selected as the 1993 winner of the Forrest Koch Award for Excellence in Economic Development, from the Denver Regional Office of the Economic Development Administration.

Mr. Preite was appointed by President Clinton as the State Director of Montana, Farmers Home Administration in the spring of 1993. Through the U.S. Department of Agriculture reorganization legislation was passed by Congress on October 1, 1994, and passage of the 1996 Farm Bill on April 4, 1996, the agency name changed to USDA - Rural Development. In 1995, Mr. Preite received the U.S. Department of Agriculture Honor Award, one of the highest awards that the Secretary can bestow upon an employee.

As Head of Rural Development, Mr. Preite supervised three departments, Rural Housing Service (RHS), serving communities and very low to moderate income families; Rural Business-Cooperative Service (RBCS), providing business loans and guarantees; and Rural Utilities Services (RUS) benefiting communities and towns. These three departments have a Montana portfolio of almost half a billion dollars. In 1997, Mr. Preite was chosen as the Outstanding Fifty State U.S.D.A. Director. This was the first time U.S.D.A. made the prestigious award.

In December of 1999, Mr. Preite was selected as the EDA, Denver Regional Office Director. This is a nation-wide competitive Senior Executive Service position. As Regional Director, he supervised activities in ten Western and Mid-western states.

In October of 2003, Mr. Preite was appointed as Director of Space Commercialization and Director of Economic Development Outreach by the University of Montana in Missoula. In November of 2004, Mr. Preite was selected by Governor Brian Schweitzer to become Director of the Montana Department of Commerce.

Mr. Preite has served as President of the Montana Economic Development Association and as Chairman of the Governor's Economic Development Council. He has been a member of the Montana Private Industry Development Council, the National Association of Development Organizations and is a member of the Senior Executive Service.



**Facilitator:** [Dr. Mike Reilly](#)

**Topic:** *Taking It To The Next Level*

Dr. Mike Reilly, Professor of Marketing, has been at Montana State University since 1984. He has taught a wide variety of marketing courses including marketing management, promotion management, advanced advertising, and the strategic management of technical innovations. In his role as Director of New Ventures at the Center for Entrepreneurship for the New West, Dr. Reilly works to find opportunities to create new ventures around Department of Defense-, NASA-, and MSU-generated technologies.

Prior to joining the MSU faculty, he taught in the marketing department at the University of Arizona in Tucson. Dr. Reilly's research interests are in consumer behavior and in the marketing of small and entrepreneurial businesses. He has published a number of journal articles on these and other topics. Dr. Reilly regularly serves as a consultant to a variety of small- and medium-sized businesses and government agencies, primarily for marketing analysis and strategy. In addition, he has served as chief marketing officer for several ventures, both commercial and noncommercial.

Dr. Reilly received his M.B.A. and Ph.D. from Pennsylvania State University. His undergraduate work in psychology and sociology was at the University of Delaware.



**Speaker:** [Governor Brian Schweitzer](#)

Governor Schweitzer was born in Havre in 1955 and was raised on his parent's registered cattle ranch in the Judith Basin, Montana. His German and Irish grandparents immigrated to Montana near the turn of the century and homesteaded in Hill County. His parents still farm near Geysler.

Governor Schweitzer earned a Bachelor of Science degree in International Agronomy from Colorado State University, and later earned a Master of Science degree in Soil Science from Montana State University. After graduation, the Governor began a career of irrigation development that took him to Africa, Asia, Europe and South America. He has built hundreds of miles of roads, poured thousands of yards of concrete, buried many miles of pipe, and built hundreds of structures, from houses to warehouses to distillation plants. During seven years in Saudi Arabia, he developed over 28,000 acres of irrigated cropland. Governor Schweitzer and his family returned to Montana in 1986 to raise a family and to build a ranching and irrigation business in Montana. His business and agricultural experience is broad and deep, including extensive farming and ranching experience in Montana, and successful agricultural business projects on five continents. He has owned and operated Montana farms in Flathead, Sanders, Rosebud, and Judith Basin Counties.

In 1993, Governor Schweitzer was appointed by the U.S. Secretary of Agriculture to serve on the Montana State USDA Farm Service Agency committee. He served for seven years with the FSA, and his three-person committee was responsible for the operation of 46 county offices, 300 employees and a budget of more than \$300 million. He resigned in 1999 to run for U.S. Senate.

Governor Schweitzer has been active in developing and implementing national farm policy, and ensuring that the voice of local Montanans is heard. In 1995, he received an award from the Secretary of Agriculture for outreach efforts to Native Americans. In 1996, he was appointed to the Montana Rural Development Partnership Board and in 1999 to the National Drought Task Force, a 16-member national board, to review policy and report to Congress an improved coordination response to drought emergencies nationwide.

Brian's life experiences are extensive and diverse. He has learned to fly his own plane, obtained a Montana Boiler's license, has communicated in several languages and has a chemical applicator's license.

On November 2, 2004, Brian Schweitzer was elected as Montana's first democratic governor since 1988, and on January 3, 2005, he was sworn in as the 23rd Governor of the great state of Montana.



**Speaker:** [Dr. Joe Shaw](#)

**Panel:** *Breakout Session – Remote Sensing*

Dr. Joe Shaw is Associate Professor of Electrical and Computer engineering, Affiliate Associate Professor of Physics, and Director of the Optical Technology Center at Montana State University – Bozeman. Shaw previously worked at the Environmental Technology Laboratory (formerly the Wave Propagation Laboratory), a research component of the National Oceanic and Atmospheric Administration in Boulder, Colorado. Under a NOAA fellowship he studied at the Optical Sciences Center in Tucson, Arizona, where he earned his Ph.D. with a dissertation on laser remote sensing. Shaw joined the Montana State University faculty in 2001.

Shaw holds a B.S. in electrical engineering from the University of Alaska, an M.S. in Electrical Engineering from the University of Utah, and a Ph.D. in optical sciences from the University of Arizona.



**Speaker:** [Dr. Will Swearingen](#)

**Panel:** *Resource Panel*

Dr. Will Swearingen has managed technology development and technology transfer programs for more than 16 years. He was appointed TechLink's Executive Director in August 2000. Previously, he served as the leader of TechLink's NASA initiatives and was TechLink's first employee.

Before joining TechLink in 1996, Dr. Swearingen directed several major programs at Montana State University (MSU), including a program to partner Montana biotech companies with university researchers for new technology development, and an international biocontrol program that focused on pest problems in four different African countries. Prior to this, he initiated new projects and directed international training programs in satellite remote sensing at the NASA-sponsored Earth Data Analysis Center in Albuquerque, New Mexico.

Dr. Swearingen is the Principal Investigator on TechLink's National Science Foundation-funded Partnerships for Innovation project, "Montana Business Foundry: Tech Ventures for a Rural State," which is creating new companies in Montana around DoD, NASA, and MSU technology. In addition, he serves on the board of Advanced Technology, Inc., which provides guidance for Bozeman's Advanced Technology Park.

Dr. Swearingen has a Ph.D. in economic geography from the University of Texas at Austin and conducted postdoctoral research at Stanford University.

**Speaker:** [Anthony L. \(Tony\) Trunzo](#)

Mr. Trunzo joined FLIR in 2003, and is responsible for the company's corporate development, mergers and acquisitions, investor relations and strategic planning activities. He is also President of Scientific Materials Corporation (SMC), a division of FLIR based in Bozeman, MT. SMC is a leading manufacturer of high quality lasers, laser components and laser materials. Prior to joining FLIR, Mr. Trunzo spent seventeen years in the banking industry, most recently as Managing Director in the Investment Banking Group at Banc of America Securities, LLC. He holds a BA in Economics from the Catholic University of America and an MBA with a concentration in Finance from the University of Pittsburgh.

# 3<sup>rd</sup> Annual Montana Aerospace Technology Conference

GranTree Inn • Bozeman, Montana

April 3-4, 2006

*“Expanding Montana’s aerospace business – establishing and executing common goals – taking it to the next level”*

## Poster Session

Poster space at the 3rd Annual Montana Aerospace Technology Conference is available at no additional charge. Each Poster will be provided with four feet of poster space on a draped table, a poster board, and tacks. Identification signs will indicate Poster table assignments.

### Poster Session Information

#### Poster Space

- Poster table assignment will be made by the Conference Planning Committee
- Each Poster will be provided with four feet of poster space on a draped table, a poster board, and tacks

#### Poster Session Schedule

Poster Set-Up:	
Monday, April 3, 2006	10:00 a.m. – 12:00 noon
Poster Area Open:	
Monday, April 3, 2006	12:00 noon – 8:00 p.m.
Tuesday, April 4, 2006	8:00 a.m. – 4:00 p.m.
Poster Removal:	
Tuesday, April 4, 2006	4:00 p.m. – 5:00 p.m.

Please do not remove posters before 4:00 p.m. on Tuesday, April 4<sup>th</sup>.

The GranTree Inn in Bozeman will accept shipments in advance of the conference. Advance shipments should arrive at the GranTree no later than Friday, March 31, 2006. Poster materials shipped direct to the GranTree will be available at the exhibitor’s assigned table by 10:00 a.m. on Monday, April 3, 2006. Outbound shipping arrangements can be made through the GranTree. Poster Session materials being shipped directly to the GranTree should be addressed as follows:

To: Company Name  
3<sup>rd</sup> Annual Montana Aerospace Technology Conference  
c/o Best Western GranTree Inn  
1325 North 7<sup>th</sup>, Bozeman, MT 59715  
406-556-6213

A list of Poster Session participants will be posted on the conference web site and included in the conference proceedings. To request participation in the Poster Session please contact Dr. Will Swearingen at [wds@montana.edu](mailto:wds@montana.edu) or the Conference Coordinator.

JoEllen Zeiler, Conference Coordinator  
3<sup>rd</sup> Annual Montana Aerospace Conference  
Phone: 406-494-7450 Fax: 406-494-7230  
e-mail: [joellen.zeiler@mtada.org](mailto:joellen.zeiler@mtada.org)

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## Hotel Accommodations

Best Western GranTree Inn  
1325 North 7<sup>th</sup>  
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Phone: 406-587-5261  
Fax: 406-587-9437  
Toll Free: 1-800-624-5865

When making reservations be sure to mention you are attending the Montana Aerospace Conference.

For more information on the Holiday Inn visit <http://www.bestwestern.com/grantreeinn>



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