

# Alternative Energy: Economic Impact and Opportunity

February 14, 2003 | Crowne Plaza, Ann Arbor, Michigan

## **PANELIST BIOGRAPHIES**

### **9:10 AM – 10:00 AM    Investing in Alternative Energy Companies**

#### **Richard A. Giesen, *Senior Portfolio Manager, Munder Capital Management***

Rick Giesen is a senior portfolio manager of Munder Capital Management and currently serves as co-manager of Munder Power Plus, a mutual fund that invests in unregulated energy- and power-related investment opportunities. He is based in Birmingham, Mich. Rick received his BA in Biology from Grinnell College and his MBA from The Kellogg Graduate School of Management at Northwestern University.

#### **Maurice Gunderson, *Co-Founder and Managing Director, Nth Power***

Maurice Gunderson is co-founder of Nth Power Technologies. Prior to founding Nth Power, Mr. Gunderson spent 20 years developing profitable products and launched five successful companies. Mr. Gunderson is a specialist in thermodynamics and energy technologies. Over the course of his career, he has been instrumental in the development of cryogenic equipment, energy systems, turbomachinery, and computer-based control systems for process plants and pipeline systems. He is a patent holder and registered professional engineer.

Mr. Gunderson holds an MBA from the Stanford University Graduate School of Business (1985), a Master of Science degree in Mechanical Engineering (thermodynamics) and Bachelor of Arts degree in Mechanical Engineering, both from Oregon State University (1974, 1975). He was named a 1984-85 NASA Technology Fellow.

Mr. Gunderson is a member of the boards of Pentadyne, NeoPhotonics, Metallic Power, Inc., STM Power, Inc., H2Gen Innovations, Inc., Clean Air Partners, Inc. and CellTech Power, Inc.

#### **Thomas R. Hazlett, *President and Chief Executive Officer, STM Power, Inc.***

Thomas R. Hazlett is President, Chief Executive Officer and Director of STM Power, Inc. Mr. Hazlett has over 27 years of experience in power generation product development, technology and manufacturing. Prior to joining STM Power in February 2002, he was with Caterpillar, Inc., where he served most recently as President of Caterpillar Engine Systems. In that position, he was responsible for worldwide operations of the advanced fuel systems business.

From 1978 to 1997, he was with Solar Turbines, Inc. (which was acquired by Caterpillar) where he held various senior positions, including Vice President of Customer Service, Director of Power Systems Operations, Director of Overhaul Operations, as well as, various other management positions in the areas of project management, design engineering and application engineering.

He is a member of the American Society of Mechanical Engineers (ASME), a graduate of Lehigh University where he earned a Bachelor of Science degree in Mechanical Engineering and a minor in Economics, and has completed the advanced management program at Duke University.

**Peter Pintar**, *Director, Investor Relations and Technology Investments, DTE Energy Company*

Peter Pintar, 44, is director of Investor Relations and Technology Investments for DTE Energy (NYSE: DTE), a diversified energy company involved in the development and management of energy-related businesses and services nationwide. Pintar is responsible for communicating the Company's strategy and investment thesis to the financial community and managing DTE Energy's \$100 million corporate venture capital fund.

Pintar joined DTE Energy in 1997 as the head of Corporate Development. He was responsible for developing long-term strategic plans, looking for acquisition opportunities, defining new business growth areas and identifying technology-related investment opportunities. Prior to DTE, Pintar was a management consultant for McKinsey & Company where he worked in their Houston, Prague, New York and Munich offices. Much of his client work was in the electric utility sector and focused on strategy and business development issues.

Pintar earned a bachelor of arts degree in economics from the University of Wisconsin. He also earned a master of business administration degree in finance from the Wharton School and a Master of Arts degree in international relations from The John Hopkins University School of Advanced International Studies.

**Moderator: Ryan Waddington**, *Project Director, Technology Investments, DTE Energy Company*

Ryan Waddington is a Project Director, Technology Investments for DTE Energy (NYSE: DTE), a diversified energy company involved in the development and management of energy-related businesses and services nationwide. Waddington is responsible for identifying and evaluating energy technology investment opportunities, and managing investments in DTE Energy's \$100 million corporate venture capital fund. Prior to DTE, Waddington was an engineering consultant working on environmental projects for large US-based manufacturing companies in the automotive, pharmaceutical and petroleum industries.

Waddington earned a bachelor of science in engineering degree in aerospace engineering from the University of Michigan, and a master of science in engineering degree in civil and environmental engineering from the University of Wisconsin. He also earned a master of business administration degree from the University of Michigan Business School, where he participated in the Corporate Environmental Management Program (CEMP). Waddington currently serves as Vice President of the CEMP Advisory Board.

## **11:10 AM – 12:00 PM    Current Market Adoption of Alternative Energy Technologies**

**Catherine Dunwoody**, *Executive Director, California Fuel Cell Partnership*

Catherine Dunwoody is the Executive Director of the California Fuel Cell Partnership (CaFCP). She was closely involved with the formation of the CaFCP in 1998, and has played a lead role throughout its history. Catherine is responsible for leading a multi-disciplinary team of industry and government representatives in planning and implementing a pre-commercial fuel cell vehicle demonstration project in California. Prior to working for the Partnership, she worked for the California Air Resources Board for 14 years, where she managed teams responsible for a variety of activities, ranging from developing stationary source test methods to developing and implementing vehicle regulations. Catherine has a Bachelor of Science degree in Biochemistry from the University of California, Davis.

**Mark Fallek**, *Vice President and Chief Marketing Officer, DTE Energy Technologies*

Mark Fallek joined DTE Energy Technologies in March of 1999. As Vice President and Chief Marketing Officer, he is responsible for product management, marketing communications, applications engineering and industry marketing.

Prior to joining DTE Energy Technologies, Mr. Fallek was Vice President, Global Product Management for York International Corporation. In that position, he was accountable for worldwide revenues, profitability and market share for the company's \$1.1 billion residential and light commercial product group. Mr. Fallek also served as York's Vice President of Marketing, where he oversaw marketing for the product group, including product management, advertising, promotion and publications.

Before that, Mr. Fallek was Executive Vice President at Gas Energy, Inc., a wholly owned subsidiary of KeySpan Energy, where he was responsible for the Company's three product sales divisions and successfully pioneered commercial gas fired air-conditioning in North America.

Mr. Fallek earned a BSEE from the University of Notre Dame and an MBA from Michigan State University. He is chairman of EEI's DG Task Force, a member of several industry groups including the American Gas Cooling Center, USCHPA, Consumer Energy Council of America Research Foundation and Intertech.

**NOTE: Robert Natkin**, *Group Leader H2 ICE, Ford Motor Company*, will replace **Pat Flaherty**, *Executive Director, USCAR*

Flaherty, a 22-year DaimlerChrysler veteran, will serve the company's two-year term as USCAR Executive Director for 2003-2004. Flaherty came home to Michigan after a five-year assignment in Washington, D.C. She was an executive on-loan to both the Department of Commerce and the Department of Energy. Most recently, she spearheaded an effort to redevelop the vision of the 21st Century Truck program—the heavy-duty equivalent to USCAR's FreedomCAR program.

**Robert Natkin**, *Group Leader H2 ICE, Ford Motor Company*

Bob joined Ford Motor Co. after graduating with a B.S. in Mechanical Engineering from Penn State University in June 1976. Bob has worked in engine design and material development both on a component and total engine systems level throughout his career.

Most notable work has been in:

- Cylinder block material development in Aluminum, CG Iron, Magnesium and Polymer Composite
- Friction reduction programs leading to Fords low friction designs in all current North American engines.
- Engine oil economy improvement for catalyst durability
- Low Crevice volume piston design and high temperature piston material development collaborations with NASA-Marshall Space Flight Center
- Ninety degree V-12 engine concept, design and development, used for the 1995 GT-90 concept car
- Sixty degree V-12 engine design supervisor and program manager (from 1993 to 1996), used in the 1996 Indigo concept car and the current Aston-Martin DB-7 Vantage
- Hydrogen internal combustion engine concept (1997), design and vehicle development.

Bob, his wife Susan and daughter Jenni enjoy travel, woodland management and working on vintage automobiles

**Christine Sloane, Ph.D.,** *Director, Freedom CAR and Technology Strategy, General Motors*

Christine Sloane is the Director, FreedomCAR and Advanced Technology Strategy at General Motors Corporation. She is responsible for technical strategy in advanced technology development programs and for the development and demonstration of technologies for energy efficiency such as hydrogen fuel cell vehicles under the FreedomCAR program. Prior to 2002, Dr. Sloane served as Director, Technology Strategy for Advanced Technology Vehicles focused on hybrid drive systems, and Chief Technologist for the development and demonstration team for *Precept*, GM's 80 mile-per-gallon 5-passenger demonstration vehicle.

Earlier she served as Director, Environmental Policy and Programs, responsible for global climate issues and for mobile emission issues involving advanced technology vehicles. She also served as GM's Technical Director for the Partnership for a New Generation of Vehicles (PNGV) where she was responsible for guiding and implementing energy conversion and materials technologies through R&D developed at national laboratories, universities and automotive suppliers. Her earlier research interests included aerosol chemistry and physics, air quality, and manufacturing & vehicle emissions. Dr. Sloane has authored over 80 technical papers and co-edited one book. She received her PhD from MIT in chemical physics.

**Moderator: Bill Orabone,** *President, TJ Pulse*

Bill Orabone is a veteran of global business with four successful technology start-ups, two company turnarounds, technology acquisition and licensing, strategic partnerships and several 'industry first' product introductions. He has founded three successful, energy related start-up companies and is currently the president of TJ Pulse – a commercialization joint venture focused on inexpensive energy storage devices for electrical power backup. Bill also worked in sales, marketing, engineering, manufacturing and strategic planning with PPG Industries and Eagle Picher after receiving a degree in chemical engineering from Purdue University.

**12:10 PM – 1:00 PM     Michigan: The Future of Alternative Energy Technologies**

**Aaron Crumm, Ph.D.,** *President, Adaptive Materials*

Aaron Crumm is the founder and President of Adaptive Materials. After graduating with his PhD from the University of Michigan, he has gone on to develop AMI's patented fuel cell stack designs and manufacturing processes. Aaron Crumm leads AMI's recently awarded government contracts for the development of a portable solid oxide fuel cell. Prior to founding AMI as a fuel cell company, Aaron Crumm gained insight into electric power generation as a nuclear engineer employed at the Westinghouse Savannah River Site in South Carolina, and at Electricite De France in Moret Sur Loing, France. Aaron Crumm received his BS in Nuclear Engineering from Purdue University.

**Rachel Kuntzsch,** *Director of Development, NextEnergy*

As the Director of Development for NextEnergy, Rachel is responsible for the business development activities related to the project including attracting projects to the NextEnergy Center and surrounding Zone. In addition, Rachel is developing a formal partnership program for NextEnergy. Prior to her role at NextEnergy, Rachel worked for the Michigan Economic Development Corporation (MEDC) as a Business Development Manager within the Global Business Development unit. Rachel was also heavily involved in the NextEnergy initiative as it developed at the MEDC. In the past, Rachel held roles in sales and marketing within the high-tech industry. Rachel received her Bachelor of Science degree from Michigan State University and is a certified Economic Development Professional.

**Jerry Mader, Director of Automotive and Energy Systems, Center for Automotive Research**

Jerry Mader is director, Advanced Energy Technology, Center for Automotive Research (CAR) at Altarum. Mr. Mader earned a B.S.E. and M.S.E. in Industrial Engineering from the University of Michigan. He has over 30 years of experience in technology transfer, commercialization, and business development. His responsibilities include creating new business opportunities for CAR and other business units at Altarum. This involves developing marketing strategies, writing proposals, creating presentation materials, and conducting executive briefings aimed at expanding the application of Altarum's core technologies.

Prior to joining Altarum, formerly ERIM, Mr. Mader headed Mader and Associates, a consulting business in the field of advanced transportation technology commercialization. He has established and headed the Electric Vehicle Development Corporation, a utility industry lead consortium, as well as managed the Electric Transportation R&D program for the Electric Power Research Institute.

**Levi T. Thompson, Ph.D., UM Chemical Engineering and CEO, T/J Technologies**

Dr. Thompson is a leading researcher for fuel-processor and fuel-cell technology, professor of chemical engineering, and associate dean for undergraduate education at the College of Engineering at the University of Michigan. He is director of a recently funded \$6-million U.S. Department of Energy project to develop low-cost fuel processors to convert hydrocarbons like gasoline and natural gas into hydrogen for proton exchange membrane (PEM) fuel cells. These fuel cells are being developed for use in portable electronic devices (e.g., cellular telephones and laptop computers), automobiles and residential power units.

He is also co-founder of T/J Technologies, a leader in the design, development and manufacture of advanced materials and electrochemical energy storage and conversion devices like ultracapacitors, batteries and fuel cells. T/J Technologies has been awarded important defense, NASA and Department of Energy grants and contracts, two NIST Advanced Technology Program contracts and a number of industrial contracts. Dr. Thompson is a recipient of the National Science Foundation's Presidential Young Investigator Award and his research has produced more than 200 papers and presentations and six patented technologies.

**Moderator: Matthew Roush, Editor, Great Lakes IT Report**

Matt is the Editor of the Great Lakes IT Report, a daily e-mail newsletter covering the Michigan technology industry, and Technology Editor at WWJ Newsradio 950 in Southfield. He has been a tech journalist since 1998. Roush grew up near Kalamazoo, graduated from Albion College, and worked for newspapers in Three Rivers, Leland, Traverse City and Kalamazoo before joining Crain's Detroit Business in 1990. He left Crain's in August to join WWJ.