

DENVER, COLORADO USA







November 9, 2017

Greetings:

On behalf of the State of Colorado, it is my distinct pleasure to welcome you to our state for the 2017 Energy Africa Conference.

Access to affordable, reliable, and clean energy is essential to Africa's economic growth. By bringing together some of the best minds in the energy technology area, this conference has extraordinary potential to foster creative opportunities for sustainable development across the African continent.

This year's conference will focus on Delivering Solutions to Africa's Energy Challenge to connect African communities and commerce. We are confident the thriving spirit of innovation and collaboration that exists in Colorado makes our state the perfect venue for this type of dialogue.

Once again, welcome to Colorado for this important event. We wish you the best for a productive and impactful conference, and we hope you enjoy your stay here.

Sincerely,

John W. Hickenlooper

Governor

Welcome to Colorado and the 2017 Energy Africa Conference.

This year marks the 10th anniversary of the Energy Africa Conference. We are excited to reach this milestone and look forward to many more. The conference is held in Denver, Colorado because Colorado is one of the leading states in the nation in developing and disseminating clean energy policies and practices. We hope to share this experience with the conference participants and use it as a springboard for solutions and connecting United States and firms across the globe to the business opportunities in the African power sector.

This year's Energy Africa Conference, under the theme "Delivering Solutions to Africa's Energy Challenges", will focus on how Africa can deploy a clean energy infrastructure that is accessible, affordable, reliable and sustainable over the years to come. The extended drought that gripped many parts of the continent illustrated how vulnerable the African energy systems are to changes in climatic conditions. Stable energy systems are crucial to sustainable economic development and recast the lives of many African citizens. The undeveloped renewable energy sources promise a cost effective, environmentally friendly and sustainable approach for Africa to meet its energy needs.

The Energy Africa Conference brings together business executives and thought leaders from the public, non-government organizations and research institutions to discuss and invest in the work needed to leverage the synergy among renewable energy sources in Africa and to connect firms across the globe to business opportunities in this sector.

We hope this conference inspires you to think bigger and more broadly about energy related opportunities, to expand your horizons, to grow your businesses, be part of the solution in making the world a better place.

We want to express our appreciation to the many people that have helped us grow over the years, some of whom are going to be honored during this year's conference.

We would also like to thank our sponsors for their generous support without which this conference would not be possible.

Energy Africa Conference Committee



DAY ONE: THURSDAY, NOVEMBER 9

All Day Registration

7:30-8:10 AM Networking Breakfast

8:00-8:05 AM Opening and Welcoming Remarks

Speaker: Luka Powanga, Co-founder, Energy Africa Conference and Professor,

Regis University

8:05-8:30 AM Key Note Speaker

Speaker: Matt Rees, Deputy Director, Power Africa

Description: Lays out the case for the development taking place in Africa and the need for US firm's participation.

8:30-9:45 AM Panel 1: The State of Africa's Power Sector

Description: This panel discusses the current energy landscape in Africa particularly, challenges and issues and offers solutions.

Moderator: Michael S. Ashford, Director, Water, Energy and Sustainable Cities,

Cheomonics International, Inc.

Speakers: Matt Rees, Deputy Director, Power Africa

David Mayen, Press Secretary, Office of the Vice President, Republic of

South Sudan

William Ross William, Chief Executive Officer, AltrescoManager, ICF

Pat Brown, Leader, Climate Reality Project

Lamine Savadogo, President, Marison Energy Systems

9:45-10:15 AM The Role of China in Powering Africa

Speaker: Ambassador Irene Giner-Reichl, Austrian Ambassador to Brasília and

President of the Global Forum on Sustainable Energy (GFSE)

10:15-10:30 AM Networking Break

10:30-10:50 AM Making America and Africa Green Again

Speaker: Chip Comins, Chairman and Chief Executive Officer, American

Renewable Energy Institute (AREI, Inc)

10:50-12:15 PM Panel 2: Utility Scale Power

Description: Discusses the challenges of integrating different energy sources. Electricity pricing, subsidies, PPAs, PPPs and energy efficiency as catalysts for meeting Africa's energy demand are included.

Moderator: Robert Stoner, Deputy Director, MIT Energy Initiative

Panelists: Michael Farina, Director, Market Development, Global Gas to Power, GE

Kevon Makell, Chairman, Chief Executive Officer and President, SEWW

Energy

Jerome Davis, Vice President, Xcel Energy, Colorado

Gosaye Mengistie Abayneh, Chief Executive Officer. Ethiopian Electric

Utility, Ethiopia

12:15-1:00 PM Luncheon/Networking and Distringuished Service Awards

Panelists: Luka Powanga, Co-founder, Energy Africa Conference and Professor,

Regis University

1:00-1:30 PM Key Note Speaker

Speaker: Lida Fitts, Regional Director, Sub-Saharan Africa, U.S. Trade and

Development Agency

1:30-4:00 PM Panel 3: Distributed Power

Description: This panel will focus on microgrids, off grid, and on grid power generation to electrify mining, manufacturing facilities and rural growth communities.

Moderator: Robyn MuGuckin, Climate Change Executive

Panelists: **Everod Samuel**, President, Samuel Engineering

Daniel C. Gregory, Chief Executive Officer, Pos-En

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Sandra Vanderstoep, DC Project Director, Alliance for Sustainable

Colorado

Rob Roys, Western Region Manager, Microgrids, ABB **Anita Joglekar**, President and CEO, Rainmaker World

Sam Booth, Senior Project Leader, Integrated Applications, National

Renewable Energy Laboratory

4:00-4:30 PM Empowering Women in Energy

Speakers: Paula Glover, President and Chief Executive Officer, American

Association of Blacks in Energy

Monica Labishe Brown, Founder and Executive Director, Africa

Development Promise

4:30-5:30 PM Panel 4: Knowledge and Human Capital Development

Description: This panel will focus on Universities as Centers for Innovation and human capital development in the African Power Sector.

Moderator: Alice Madden, Executive Director, Getches-Wilkinson Center,

University of Colorado

Panelists: Tarekegn Tadesse, Associate Professor, Addis Ababa Science and

Technology University, Ethiopia

Jim Marchiori, Executive Director, Global Energy Management

Program (GEMS), University of Colorado Denver

Brad Rogers, Associate Professor, Engineering and Co-Director,

GlobalResolve, Arizona State University

Anne Best Johnson, Senior Planner / Smart Cities Initiative Director,

Tetra Tech

5:30-5:40 PM Review of the Day's Discussions

Speaker: Ravi Vola, Former Advisor-International Programs, Renewable Energy

Grid, National Renewable Energy Laboratories(NREL)

5:40-7:00 PM Poster Presentations and Networking/Reception

Description: Access high quality human capital by attending the presentations from the brightest Across American Universities such as Colorado School of Mines, University of Colorado, Columbia University, Harvard University and Massachusetts Institute of Technology.

6:00-10:00 PM Networking Reception (Sponsored by Chemonics)

DAY TWO: FRIDAY, NOVEMBER 10

All Day Registration

7:00-8:15 PM Networking Breakfast

8:15-8:30 AM Opening Remarks and Review of Day 1 Events and Preview of Day 2 Events

Speaker: Jason Nagy, Founder, Mainspring Innovation, LLC

8:30-9:00 AM: Key Note Speaker

Speaker: Ellen Stechel, Deputy Director, LightWorks and Senior Sustainability

Scientist, Julie Ann Wrigley Global Institute of Sustainability, Arizona

State University

9:00-10:00 AM Panel 5: Structuring a Successful Power Deal

Description: Focusses on how to "derisk" projects in Africa.

Moderator: Mark Safty, Wirth Chair in Sustainable Development, University of

Colorado

Speakers: Neal Allen, Chairman, President and Chief Executive Officer,

Dominovas Energy Corporation

Frank Corsini, Chairman and Founder, Give Global Energy

Bonnie Guo, Finance director at the Overseas Private Investment

Corporation

10:00-10:30 AM Integrating Different Power Sources

Speaker: **Doug Arent**, Executive Director, Joint Institute for Strategic Energy

Analysis, National Renewable Energy Laboratory (NREL)

10:30-11:00 AM Networking Break



11:00-12:15 PM Panel 6: Investing and Financing Energy Projects in Africa

Description: This session discusses investing and financing power projects in Africa.

Moderator: Robert H. Edwards Jr., Partner and Co-Head, Energy Project Financ

and Clean Technologies

Panelists: Ralph Cleveland, Founder and Chief Executive Officer, Cleveland

and Associates

Lida Fitts, Regional Director, Sub-Saharan Africa, U.S. Trade and

Development Agency

Mark Richard Dagel, Chairman and Chief Executive Officer, IConnect

Capital Investments

Pius Kasolo, Chief Executive Officer, ZCCM Investment Holdings Plc,

Zambia

12:15-1:00 PM Luncheon Networking and Poster Presentation Recognition

Speakers: Luka Powanga, Co-Founder, Energy Africa Conference, and Professor,

College of Business and Economics, Regis University

Derrick Hudson, Associate Professor, Colorado School of Mines **Ellen Stechel**, Deputy Director, LightWorks and Senior Sustainability Scientist, Julie Ann Wrigley Global Institute of Sustainability, Arizona

State University

1:00-2:00 PM Key Note Speakers

Speakers: Kathleen Staks, Executive Director, Colorado Energy Office (CEO)

Carl Ledbetter, Managing Partner, Pelion Ventures

2:00-3:00 PM Panel 7: Attracting Funds to the African Energy Sector

Description: This interactive panel will discuss what needs to be done to attract more funding to African energy projects.

Moderator: Carl Ledbetter, Managing Partner, Pelion Ventures

Panelists: **Debby Stone**, Vice President, Americas Energy Services

Ambassador Michael Ranneberger, President, World Insight Consulting and Former US Ambassador to various countries **Jon Saiger**, Senior Operations Advisor, Millennium Challenge

Corporation (MCC)

Megan Kerins, Solar engineering consultant, 10Power

3:00-3:30 PM Utilizing New Technologies to Reduce Carbon Emissions

Moderator: Naquetta Ricks, Businesswoman and Community Leader

Speakers: Wiley Rhodes, Chief Executive Officer, Newpoint Companies

Juan Grobler, Executive Vice President, Fridgewize

3:30-5:00 PM Panel 8: Leveraging US Government and Private Resources to Successfully do Business with Africa

Description: This session discusses a myriad of government and private sector resources available to allow for participation in the African power sector. Participants include the Export-Import Bank, USTDA, US Department of Commerce, Millennium Challenge Cooperation, and Small Business Administration.

Moderator: Martha Butwin, Senior International Trade Specialist in the USDOC's

U.S. Commercial Service office

Panelists: Bonnie Guo, Finance director at the Overseas Private Investment

Corporation

Paul Bergman, Director, US Export Assistance Center, US Department

of Commerce

Bryson Patterson, Regional Trade Finance Specialist, Small Business

Administration (SBA)

Kelly Kemp, Regional Director, Export Import bank

5:00-5:15 PM Wrap-up



SPEAKERS



Neal AllenChairman, President and Chief Executive Officer, Dominovas Energy Corporation

Mr. Allen's experience and expertise is utilized in a manner consistent with the duties that are customary and usual to those of Chairman, President and Chief Executive Officer. Mr. Allen formerly served in the same capacity with Dominovas Energy, LLC. Prior to Dominovas Energy,

LLC he served as the Principal Shareholder of a private Family Office, which specialized in the development and implementation of proprietary revenue models as a force multiplier ensuring optimal deployment, utilization, and management of financial resources. Under Mr. Allen's watch, the Family office's endeavors included the ownership of: a "major brand" automobile dealership, several healthcare companies, waste management and disposal enterprises, land acquisition and development, and natural resource development enterprises. Mr. Allen majored in finance and studied law and is proud to be a University of Southern California Trojan.



Doug Arent, PhDExecutive Director, Joint Institute for Strategic Energy Analysis, National Renewable Energy Analysis (NREL)

Doug Arent, PhD. is Executive Director of the Joint Institute for Strategic Energy Analysis at the National Renewable Energy Laboratory (NREL). In addition to his NREL responsibilities, he is Sr. Visiting Fellow at the Center for Strategic and International Studies, and a member of the National

Research Council Committee to Advise to U.S. Global Change Research Program (USGCRP), and a member of the International Advisory Board for the journal Energy Policy. Dr. Arent was a Coordinating Lead Author for the 5th Assessment Report of the Intergovernmental Panel on Climate Change (IPCC). His research interests are centered in energy and sustainability, where he has been active for more than 30 years. He has published extensively on topics of clean energy, renewable energy, power systems, natural gas, and the intersection of science and public policy.



Michael Ashford
Director, Water, Energy and Sustainable Cities Practice, Chemonics

Mike Ashford is Director of the Water, Energy and Sustainable Cities (WESC) Practice at Chemonics International, Inc. In that role, he manages company-wide the technical and professional resources for Chemonics' intern ational service delivery regarding power, water and municipal services. Mike has 20 years' experience in clean energy with a focus on project development and reducing development risk through

innovative financing. Before joining Chemonics, Mike helped launch a clean manufacturing technology company, leading the business planning and venture capital raise during its start-up phase. Mike's work has taken him to more than 15 countries as a technical expert for USAID, the World Bank, and the International Finance Corporation, as well as numerous private and non-profit organizations.



Morgan Bazilian

Senior Fellow, Center on Global Energy Policy, Columbia University

Morgan Bazilian has over two decades of experience in the energy sector – and is regarded as a leading expert in international policy. His work has ranged from fiscal policy, to systems analysis, to infrastructure investment, to market regulation and governance in all areas of energy policy from upstream oil and gas to power systems. He holds a Ph.D. in energy

analysis and was a Fulbright Fellow. He has published widely in the peer-reviewed literature, and his 2008 book: "Analytical Methods for Energy Diversity and Security" is a seminal work in the field. Dr. Bazilian is a member of the World Economic Forum's Global Advisory Council on Energy, is a Senior Fellow at the Center on Global Energy policy at Columbia University, a Senior Fellow at the Center for Strategic and International Studies, a Visiting professor at the Royal Institute of Technology, and a Research Associate at Cambridge. Previously, Morgan worked in the United Nations on energy access issues. Prior to that post, he worked in the Irish Government as Chef de Cabinet for the Energy Minister, and was the Deputy CEO of the Irish National Energy Agency. He was also the European Union's lead negotiator on low-carbon technology at the international UNFCCC climate negotiations.



Paul BergmanDirector, U.S. Export Assistance Center, Denver

Paul is the Director of the U. S. Export Assistance Center in Denver. He has worked for the U.S. Departments of State and Commerce for more than 43 years. Paul served as the first U.S. Foreign Commercial Service Officer of the U. S. Department of Commerce in Bucharest, and returned to Romania during the summer of 2001 in the role of Acting Senior Com-

mercial Officer. Paul has worked in and visited over thirty-five countries, including acting as the Senior Commercial Officer in Tel Aviv, Israel in the summer of 2006 and a recent tour as the Acting Commercial Counselor in Lagos, Nigeria.

Paul currently serves on the World Trade Center Denver Board and its Executive Committee, has served two terms on the Advisory Board for the State of Colorado on International Trade, and has completed three terms as President of the International Trade Association of Colorado. Consequently, Paul has received an award for "Outstanding Service to the Community" from the International Trade Association of Colorado and was given a lifetime membership to the Association. He also has served on the Board of Advisors for the Denver Foreign Trade Zone and on the Governor of Colorado's Task Force on Latin America.

A 1971 graduate of Regis College in Denver, Paul received a Master's Degree in International Management from Thunderbird Graduate School of International Management in Phoenix, Arizona in 1973, and has completed post graduate doctorate studies at the University of Denver. Paul's interest in education led him to serve as an adjunct professor at several Colorado universities and his love of basketball has resulted in coaching positions at local high schools.





Sam Booth
Senior Project Leader, National Renewable Energy Laboratory
(NREL)

Sam Booth is a Senior Project Leader at the National Renewable Energy Laboratory (NREL). He has over ten years of experience in the clean energy industry working on renewable energy, microgrids, and finance. He is currently leading work to support the Power Africa Beyond the Grid

Program with developer technical assistance, knowledge products, and country policy support. He has worked on numerous other international projects such off grid feasibility studies in Indonesia, renewable energy development in Haiti, and island energy planning in Brazil. He is also currently helping Marine Corps installation Miramar to build the most advanced installation scale microgrid in the DoD and recently helped the installation commission and test a 100% renewable building level microgrid. Prior to joining NREL Sam worked in energy and aerospace research and development engineering. He has B.S. degrees from the University of Colorado in Chemical Engineering and Environmental Engineering plus a Masters of Business Administration (MBA) from Boston University.



Pat Brown
Leader, Climate Reality Project and Chief Executive Officer, Angel
Fire Connections

Pat Brown is currently a leader with the Climate Reality Project which now has over 4 million followers and supporters in 47 countries. The organization educates the public, governments and businesses on the earth's changing climate and solutions to deal with this issue. He is also

the Chief Executive Officer of Angel fire connections.

Pat is has worked on real estate developments in the Africa, US, Caribbean, and Mexico with an eye on green solutions to create a symbiotic living ecosystem. His previous engagements include being a Corporate Secretary and co-founder of eMatch Connect, Inc. and Chief Executive Officer of Safety Net Services.

In his current position with Angel Fire Connections, he is engaged in stewarding startups and early stage businesses through the common pitfalls of underfunding, incompatible management, shareholders and investors and inadequate risk mitigation to position.

Pat holds bachelor's degree in history from, Colorado State University, a juris doctorate from the University of Michigan Law School. He is also a graduate of the Harvard Law School Trial Advocacy College.



Marth Butwin
International Trade Specialist, U.S. Department of Commerce,
Denver

Martha Butwin has worked for the U.S. Department of Commerce since February 1991, and has been an International Trade Specialist in the Denver U.S. Export Assistance Center since 1999. Prior to her arrival in Denver, Ms. Butwin was the Manager of the Wheeling, West Virginia

Export Assistance Center, served as an International Trade Specialist for the U.S. Department of Commerce in Detroit, and was an Antidumping Compliance Analyst at USDOC headquarters in Washington, DC. Martha's work experience includes serving as the U.S. Commercial Service Europe Team Leader and the organization's inaugural Energy Team Leader, as well as working on projects in Argentina, Austria, Bulgaria, Chile, Germany, Italy, Slovakia, and Spain. Locally, Ms. Butwin's responsibilities include assisting export endeavors of companies in Colorado and Wyoming, where she works primarily with energy, mining and general equipment manufacturers, service providers and organizations.

Martha earned a Bachelor of Science in Mechanical Engineering from Purdue University, and a Master of International Management degree at the University of Denver.



Ralph ClevelandFounder and Chief Executive Officer, Cleveland and Associates

Over three decades of experience in varied aspects of project, asset, enterprise, corporate, and community development. Seasoned corporate executive with strong business leadership and business transformation skills. Key experience in strategy formation and execution, including associated strategic transactions and the needed due diligence. Highly

experienced in production, operations, and operations risk management across multiple industries including having managed all aspects of engineering, design, construction, and project delivery. Key market exposure and business analysis across every region of world. Key industry experience in energy, risk management, technology development and commercialization along with having chief executive experience in various aspects of the natural gas processing, storage, transportation, and distribution. Have led industry groups in many aspects of the energy and power industry value chain.

Experienced in community engagement, development, and sustainability including strategy formation, economic development, innovation and entrepreneurship, environmental sustainability, economic inclusion, capital formation, workforce development, diversity management, human and civil rights advocacy, and emergency preparedness and disaster recovery.





Chip CominsChairman and CEO, American Renewable Energy Institute

Chip Comins is the Chairman and CEO of the American Renewable Energy Institute, (AREI, Inc), Founder of the AREDAY Summit, Expo and Film Festival, Managing Director of American Spirit Productions, President and CEO of WEnergy, Inc. and Co-founder of the Green Girl Minute. He has produced and directed both long and short form documentary films for

educational and broadcast television markets, including The National Renewable Energy Laboratory, DOE Wind Powering America, PBS, Link TV and BET. A long-time advocate of developing and implementing renewable energy resources to abate greenhouse gases and climate change, Comins advocates a business approach to solving both the economic and environmental crisis. In 2009, he produced 13 official side events at the UNFCCC COP 15 in Copenhagen and is now producing the 13th Anniversary AREDAY Summit featuring President Jimmy Carter "Accelerating Solutions for the Great Transition" August 10-13, 2014.



Frank Corsini Chairman and Chief Executive Officer, GIVE Global Energy

Frank Corsini, Chairman & Chief Executive Officer and founder of GIVE Global Energy which specializes in advising and partnering with governments and private industry to create viable renewable energy based upon sustainable agriculture practices and best of breed green energy facility designs. GIVE stands for Green, Independent, Viable Energy. Mr. Corsini also serves as co-founder and President of Liberty Global Energy

which has partnered with China International Trust and Investment Corporation (CITIC) to design and build Africa's first LNG gas port to supply 300 MW's of new and converted electricity and to spur industrial development in Senegal.

Previously, Frank founded NXT Nutritionals, a natural sweetener three times sweeter than sugar to counter diabetes (patent pending); was an Executive of ION Capital Partners (a wholly owned wealth management division of Bear Stearns); Founder, American Express Cobalt Card (sold to First Data Corp); Founder, California Health Technologies inventor of commercial cancer drug (sold to Cooper Development); Inventor with 4 U.S. patents; Economist, U.S. Department of Commerce and White House Staff (President Gerald Ford).

Education: Georgetown University, BA Economics; Clark University, BS Psychology.



Jerome Davis
Regional Vice President, Colorado Public Service Company, an Xcel
Energy Company

Jerome Davis serves as Regional Vice President, Colorado for Public Service Company of Colorado, an Xcel Energy Company. In this role, Davis has executive leadership responsibility for local government affairs in 165 communities located throughout the state.

He oversees the managed accounts of the company's largest business customers, which together comprise more than \$1 billion in annual revenue. Davis is also responsible for providing strategic leadership for the management of community relations and economic development for the Colorado jurisdiction.

Under his guidance, Xcel Energy has built a solid and well-earned reputation for community involvement. The company's charitable giving foundation, which is supported by shareholder investments, has made substantial investments in focus area grants to support and promote workforce development, STEM (Science, Technology, Engineering, and Mathematics) education, environmental stewardship and access to the arts.

Davis also has oversight of the company's United Way Campaign, employee volunteer programs, and corporate sponsorships that support organizations and programs in the communities we serve.

After starting with Public Service Company of Colorado in 1984, Davis filled diverse roles within the company. His most recent position was that of director, Community Relations. Prior to that, he was area manager for the City and County of Denver and the City of Aurora, and has broad experience with the utility, working in substation engineering, corporate accounting, sales and marketing, and supplier diversity.

Davis earned his bachelor's degree in finance and computer information systems and a MBA from Regis University. He is also a Walter Kaitz Foundation Fellow.

He has long been active in the community and is currently a board member of the Metro Denver Economic Development Corporation, as well as Visit Denver, Colorado Health Foundation, Aurora Economic Development Council and the Denver Chapter of the American Association of Blacks in Energy. He is a graduate of the Leadership Programs for both the Denver Metro Chamber of Commerce and Aurora Chamber of Commerce.

Davis is a Colorado native, and resides in Aurora with his wife Jackie, and two children, Jasmine and Jordan.



Robert EdwardsPartner and Co-Head, Energy Project Finance and Clean Technologies

Mr. Edwards collaborates across the firm to bring innovative structuring and financing solutions to technology companies across the energy spectrum. His expertise in project finance and structuring, his experience in accessing cost share grants, DOE and USDA loan guarantees and his

knowledge of global commodities markets allows Mr. Edwards to provide value added solutions to emerging companies in the energy space. In the electric sector, he has been involved in smart grid, distributed generation, high voltage transmission projects and the digital technologies supporting the transformation of the electric grid. In the oil and gas and biofuels sectors, he works with companies working on the introduction and deployment of innovative technologies in the natural gas and oil sectors including gas-to-liquids projects, LNG export projects and producers using hydraulic fracturing technologies to develop shale gas and tight oil in environmentally sound ways. In the



biofuels space, he works with companies developing next generation biofuels.

Mr. Edwards served as lead counsel on more than \$10 billion in energy, infrastructure and auto industry project financings. He has represented utilities, independent power producers, and investors in acquisition and divestiture of domestic and international energy projects, including buyers and sellers in competitive auctions for share interests in project financed projects, and asset acquisitions of generating plants and other energy assets. He is experienced in domestic and international renewable energy projects, and emerging issues relating to climate change and renewable energy policies in the U.S. and abroad. He has advised utility clients on developing strategies for compliance with state mandated renewable portfolio standards. He has also advised biofuels and oil and gas clients on the changing regulatory frameworks affecting their industries and as to the administration and implementation of energy regulations, laws and policies.

Mr. Edwards holds a J.D. Law and MBA in Business from Stanford University and a Bachelor of Art in Economics from Harvard University where he graduated Magna Cum Laude.



Michael FarinaDirector, Market Development, Global Gas to Power, GE

Michael Farina has extensive global energy industry expertise centered around gas and power markets with consulting expertise across natural gas value chains in North America and around the world. More recently he has been active in gas to power project development in Africa, Southeast Asia, and Latin America. Prior to his current position, Michael was one GE's senior analysts on the global fuels market landscape. He was

Leader of GE's Fuels Center of Excellence (COE) and part of GE's Corporate Strategy and Analytics team. His work helped senior leadership understand how fuels markets impact GE's long-term business strategy and technology investments. Michael has been in the energy industry for almost two decades, primarily focusing on natural gas and power markets economics, technology, and policy. Prior to joining GE, he was Director, North America Natural Gas, at Cambridge Energy Research Associates (CERA). Mr. Farina holds a BA degree in Economics from Colorado State University and a Master's degree in Economics from the University of Colorado.



Lida FittsRegional Director for Sub-Saharan Africa, U.S. Trade and Development Agency

Ms. Lida M. Fitts is the Regional Director for Sub-Saharan Africa for the U.S Trade and Development Agency, where she is responsible for developing the agency's strategies and assistance activities throughout the region. In addition to her regional responsibilities, she is also the

Telecommunications Sector Worldwide Team Leader for the Agency.

Ms. Fitts has two decades of experience in international trade, a decade of which has been focused on expanding African trade and trading capacity. Ms. Fitts began her career at USTDA in 2008, and has served as the Country Manager for Sub-Saharan Africa and for East Asia. Prior to joining the federal government, she led export promotion programs in Africa and the Middle East for the International Executive Service Corps (IESC), where she developed export strategies for

Moroccan companies that resulted in over \$74 million in increased exports. Previously, as Program Manager at The Crafts Center, she advised exporters in 81 countries on how to access new markets. Ms. Fitts also worked as a Business Development Volunteer for the U.S. Peace Corps in Cotonou, Benin, where she consulted with small and medium businesses on developing new markets. Prior to her international development work, Ms. Fitts was an Account Executive at LobsenzStevens, a New York public relations firm, where she created market entry strategies for International and domestic technology firms.

Ms. Fitts holds a B.A. degree from Davidson College. She has travelled and worked in over 60 countries and speaks French.



Karen GerwitzCEO and President, World Trade Center Denver

Karen Gerwitz joined the World Trade Center Denver in August 2010. She brings 25 years' experience in international business and communications to the organization. Ms. Gerwitz recently served as Director of Communications for the Colorado Department of Regulatory Agencies and Director of Board Relations for the State Board of Education. She was also

Manager of Communications for Raytheon in Aurora. Her international experience includes Chief of Protocol for the Colorado International Trade Office, where she planned the official visits of the Emperor and Empress of Japan, the G8 Summit, the Western Hemisphere Ministerial Summit, and hundreds of other delegations. Other international experience includes: Information Office for a science institute in Vienna, Austria; Operations Manager for a sawmill in Ghana, West Africa; Business Development Director for Attache International Marketing; and International Marketing Specialist for UNISYS. She earned her Bachelor of Science Degree in International Business and her Masters of Public Administration from the University of Colorado. She lives in North City Park with her husband, Elie, and serves on several community boards.



Irene Giner-Reichl
President, Global Forum on Sustainable Energy

Irene Giner-Reichl has been a member of the Austrian Diplomatic Service since 1982. Her main areas of expertise are economic and social development, women's rights' issues, environment, energy, and development cooperation.

Irene Giner- Reichl has held numerous international bureau functions. From 1995 to 1998 she was director of the international department of the Austrian Ministry for the Environment. From 1998 to 2001 she was Austria's permanent representative to the UN, IAEA, UNIDO and CTBTO in Vienna. From 2001 to 2004 she headed the UNIDO office in New York in the rank of assistant director general. From 2005 to 2012 she was director general in charge of Austria's development policy and cooperation.

Since 2012, she held the position of Austrian ambassador to the People's Republic of China and Mongolia until recently when she transitioned to her current position.

Irene Giner-Reichl is president of the Global Forum on Sustainable Energy (GFSE), which she



founded in 1999 as a multi-stake-holder platform for dialogues on energy in the service of sustainable development, and vice-president of the REN21 steering committee.

She has published books and articles on international relations and global issues. She has lectured at the Diplomatic Academy in Vienna for several years on human security and development policy.



Paula R. GloverPresident and CEO, American Association of Blacks in Energy

Paula R. Glover is President and CEO for the American Association of Blacks in Energy, a non-profit professional association whose focus is to ensure that African Americans and other minorities have input into the discussions and development of energy policy, regulations, and environmental issues. In this role, she is responsible for managing the national

office, and provides strategic direction and leadership for the organization.

Prior to her current role, Ms. Glover served as the association's Vice President of Operations and also served as the organization's Director of Communications. Ms. Glover's experiences include 15 years in the energy industry for both electric and natural gas distribution companies. During that time she has built a stellar reputation working with state legislators and regulators in her roles as Manager of Government and Regulatory Affairs. Ms. Glover commands a clear understanding of the consumer and community sides of the business as well having held industry positions in Community Outreach and Economic Development.

Ms. Glover is a seasoned non Profit professional. Prior to her position at the AABE, Ms. Glover was the Community Awareness Director for the Regional YMCA of Western Connecticut where she was responsible for the organizations' marketing, communications, community and government relations and public relations functions.

In March 2014 Ms. Glover was appointed to the National Petroleum Council by U.S. Secretary of Energy, Dr. Ernest Moniz. Ms. Glover received her B.S. in Marketing Management from the University of Delaware. She is the recipient of the Bring it Home to Hartford Award; the Clarke Watson Chairman's Cup; the Award of Distinction by the Videographer Awards and the Platinum Achievement Award from the Cooperative Developmental Energy Program at Fort Valley State University. She is a 2003 graduate of Leadership New Haven and has contributed to an article on work life balance in Take Pride magazine.



Juan GroblerFounder and Executive Vice President, Fridgewize Inc.

Juan Grobler, is a founder and Executive Vice President of FridgeWize, Inc. FridgeWize was founded to measure energy reduction in the HVACR space. Since its inception in 2010, FridgeWize has become the leading authority and retrofit arm in North America of an energy efficient line, which is fully quantifiable, and is now in the process of a global expan-

sion. He holds a degree in Science from Natal University in South Africa, and resides in Carbondale Colorado. He consults to numerous national and international businesses to reduce their carbon footprint, and saves money on their bottom line with very quick payback periods. The former

International rugby player, who played in the 1999 Rugby World Cup, is a fierce competitor and has a passion for energy conservation.



Bonnie GuoDirector, Overseas Private Investment Corporation, Global Energy Group

Bonnie Guo is a Director in the Overseas Private Investment Corporation's (OPIC) Global Energy Group, performing credit underwriting to power projects globally but with a focus in Sub-Saharan African markets. Prior to joining OPIC, Bonnie worked as an investment manager for a

UK-based investment fund, Foresight Group, acquiring and financing UK solar PV assets under the UK Renewable Obligations Certificate program. She also spent 9 years at AES Corporation in various roles, but a majority of which was in executing and financing solar PV projects in continental Europe. She holds an MBA from Georgetown University and a bachelors and masters in engineering from Columbia and Cornell Universities, respectively.



Derrick HudsonAssociate Professor of International Relations

Dr. Hudson is a Teaching Associate Professor of International Relations in the Division of Humanities, Arts, & Social Sciences, where he teaches undergraduate courses in International Relations, African History and in the HASS Graduate program. He earned his PhD in International Relations from the Josef Korbel School of International Studies at the University

of Denver. He specializes in religion and politics in Africa, with particular expertise on the role of prophetic Christianity as an agent for social change in selected historically deeply divided societies. His teaching interests also includes the role of truth commissions as societies are in transition from authoritarian to democratic rule and will teach a course on power and leadership in the McBride Honors Program at CSM. Prior to coming to Mines, Dr. Hudson was an Assistant Professor in the Department of African and African American Studies at Metropolitan State College of Denver in which he gained valuable experience in teaching African American Studies, Social Movements, and Kenyan Politics and Culture. He developed and led a team of students for a one-month study abroad experience in Kenya in 2007. Prior to earning his doctorate, Dr. Hudson has worked with several Denver-based nonprofit organizations as a Program Director, Academic Director, and served as an affiliate faculty member at Colorado Christian University in which he developed a program in Urban Studies and Leadership. His field work has been conducted in numerous countries, most notably South Africa, Kenya, Sudan, and Guatemala. He is currently finishing an article that explores the common patterns of resistant spirituality amongst Indigenous people in Mesoamerica and Afro-Caribbean peoples in the Caribbean. His next major project will explore the transition processes as southern Sudan declares its independence in 2011. Prior to his academic career, Dr. Hudson served as an Air Weapons Controller with the Airborne Warning and Control System (AWCS) in the United States Air Force in Saudi Arabia, Egypt, western Europe, and Puerto Rico.





Anita JoglekarPresident and CEO, Rainmakers Worldwide Inc.

Anita Joglekar is the President and CEO of Rainmakers Worldwide Inc. a company she founded to provide green technology solutions for the most urgent needs of humanity; energy, water, food and waste disposal. These technologies provide 100% recovery, treatment and recycling of water, abundant renewable energy, high yield organic cultivation of food and

safe and emissions free conversion of all waste into green electricity to create sustainable and resilient infrastructure. They create solutions that are economically viable, environmental sound and fully sustainable. Singly or integrated together they create massive positive impact on people, our planet and on profits all at once leading to full sustainability, resiliency, climate change adaptation and public health benefits.

Anita brings to Rainmakers and its technology partners 30 plus years of serial entrepreneurship, technology development and commercialization knowhow, as well as access to funding and markets. Anita, a visionary entrepreneur holds an MBA and has founded and run successful for profit as well as nonprofit ventures. She brings a diverse skillset of business acumen combined with business training, leadership, marketing, public speaking and people skills. Through her many projects worldwide Anita is well connected in the international government and business world.



Pius Kasolo

Chairman and Chief Executive Officer, Zambia Consolidated Copper Mines Investment Holdings

Dr. Kasolo holds a PhD in Economic Geology from the University of Southampton, United Kingdom as well as an MSc in Mineral Evaluation from Nancy Ecole de mine, France. Dr. Kasolo also holds a BSc in Geology from the University of Zambia. He holds various other business and technical

qualifications.

Dr. Kasolo has over 20 years of experience in the mining sector as a consultant and at senior management level, during which he has worked in, and provided consultancy services to, organizations with major international mining interests. He has undertaken various high level research studies, consultancy assignments and evaluations in the mining industry and other business sectors for the European Union, BHP, the University of Southampton and the Zambia Revenue Authority among others. He has held various senior positions in the mining industry including that of Exploration Manager for JCI Limited of South Africa (then Part of the Anglo-American Corporation) covering various countries namely Ivory Coast, Burkina Faso, Senegal, Ghana, Mali and Gabon. Dr. Kasolo has served as Director on several companies in Africa including Firestone an Australian Listed company.

Prior to becoming Chief Executive Officer of ZCCM Investments Holdings Plc in October 2014, Dr. Kasolo was owner and Chairman of Zambezi Holdings, a diversified investment company and Chief Executive Officer for Zambezi Mining Services (a concrete lining products firm based in South Africa).



Kelly KempRegional Director, Southwest Regional Office, Export-Import Bank of the U.S.

Kelly Kemp is the Regional Director with the Southwest Regional Office of Export-Import Bank of the United States. Serving as its "North Texas Branch", Kelly's current territorial responsibilities include North, West, East Texas, the Texas Panhandle, Arkansas, Colorado, Louisiana, and

Oklahoma.

Prior to joining Ex-Im Bank in 2001, Kelly served Halliburton Company for nearly twenty (20) years. Beginning his career in field operations, he went on to serve in a variety of domestic and international credit management, treasury, and finance roles. Kelly spent ten years as a Trade Finance Specialist marketing and implementing financing solutions that enabled Halliburton and its vendor community to benefit from incremental sales, to emerging markets such as Algeria, Angola, Brazil, Mexico, Russia, and Venezuela.

Kelly is a 1981 graduate of Harding University (Searcy, AR).



Megan KerinsSolar Energy Consultant, 10Power

As a solar engineering consultant with a focus on emerging economies, Megan has a passion for bringing equity and diversity into the renewable energy sector. She holds a Masters in Civil Engineering from Stanford University and has worked for various Bay Area solar companies, including overseeing a national solar quality assurance program with Sunrun.

She has also actively participated in the funding, design, and installation of solar and micro hydropower projects in Thailand, Burma, and Ethiopia. In 2016, Megan started Solar Stewards, LLC, serving as a technical advisor to commercial- and utility-scale projects in the US and Haiti. In her spare time, Megan enjoys dancing Ballet and Flamenco, and spending time in the mountains. She is excited to work with the 10Power team on bringing a sustainable business model, new jobs, and high-quality solar energy systems to Haiti!





Carl LedbetterManaging Partner, Pelion Ventures

Carl a well-known perpetual venture capitalist (http://pelionvp.com/), recipient of four new patents over the past five years has been on every continent including Antarctica. He has swum in every ocean including the Baltic, the Black Sea, and both the Arctic and Antarctic Oceans. He is also an ardent family man who politely conquered Mount Kilimanjaro because

he thought all these adventures were safer than being a venture capitalist.

In a typical Carl style, he has conquered the business world too. Apart from being in the venture capital world for 21 years, he has served on more than twenty-five public and private companies including Novell, AT&T, IBM, Control Data Corporation and SUN Microsystems at either senior executive level or on the board of directors. Did I mention he was also a professor of Mathematics!!!



Alice MaddenExecutive Director, Getches-Wilkinson Center, University of Colorado

Alice is a proud CU alumna and die-hard Buffs fan. She earned her Bachelors and worked in high tech for several years before returning to CU Law to earn her JD in 1989. Her law practice focused on employment law, civil rights and ant-discrimination efforts. Alice then returned to CU

Law School as the Director of Alumni Relations in 1997 where she also taught Legal Writing and Advocacy.

Alice was elected to the Colorado House of Representative in 2000. She is considered the architect of the 2004 progressive resurgence in the State House and served as Majority Leader for four years. One of Alice's legislative priorities was building the foundation for what is now referred to nationally as the New Energy Economy.

In 2009, Alice served as the Climate Change Advisor to former Colorado Governor Bill Ritter and was a Senior Fellow on Climate Change for the Center for American Progress.

In 2011, Alice became the Timothy E. Wirth Chair in Sustainable Development at CU Denver where she worked with a diverse set of stakeholders to advance sustainable economies, and increase the interest of female and minority students in completing STEM majors and working in sustainability-related fields. She also taught graduate level Political Advocacy.

Alice accepted an appointment in 2013 to the U.S. Department of Energy where she served as the Principal Deputy Assistant Secretary for Intergovernmental & External Affairs. Her team led the interface with local, state and tribal leaders, and other relevant constituencies, to achieve the goals of the Department, including the President's Climate Action Plan. She also assisted those seeking funds to grow emerging technologies.

Alice returned to Colorado in mid-2015 and formed All of the Above Consulting, focusing on clean energy development, advancement of new technologies, and related public policy.

Alice has always believed in giving back to her community and has served on multiple boards and professional associations. Two recent examples include the YMCA and the Africa School Assistance Project, which builds schools in rural Tanzania.

She is married to Pete Madden and they have two sons. Other interests include cheering on the U Penn Quakers where one son plays football, hiking with their two dogs, skiing, mountain biking, dirt biking, tennis, writing fiction, and curling up with a great book. She has recently developed an addiction to Words with Friends.



Kevon MakellFounder and Chief Executive Officer, SEWW Energy Inc.

Kevon Makell is the founder and Chief Executive Officer at SEWW Energy Inc., where he leads the company's operations to develop and deliver sustainable, smart macro and micro-grid solutions globally. Mr. Makell has over 30 years of experience in the energy industry: the majority with FirstEnergy (a Fortune 500 Utility), managing utility planning, govern-

mental affairs, operations, new ventures, alternative energy, and regulatory compliance. Prior to starting SEWW Energy he was the Vice President & General Manager at PureNERGY Renewables Ltd, a sustainable energy technology company featuring hybrid Renewable Energy solutions for island nations, ranging from 1.5 kilowatts to 1 megawatt.

It was through Mr. Makell's personal experience living on the island of Bermuda that the vision for SEWW Energy was born. Island nations have been the most significantly impacted by global climate change and severe weather conditions, resulting in energy reliability issues. When Kevon was faced with these issues, he leveraged his vast experience in Renewable Energy, Energy Efficiency, Energy Consulting, Energy Services and Electric Utility to build a smart micro-grid islanded solution to power his own home and provide energy security for him and his family. It was through this effort that he realized he wanted to provide similar solutions for other, less fortunate populations that suffer from energy access challenges.

Throughout his career Mr. Makell has successfully completed both large scale (\$6.4B) and small scale energy projects throughout the United States; and Internationally in Bermuda, the Caribbean, Latin America and Africa. He earned his Bachelor of Science degree in Business Management with an emphasis in engineering from Bucknell University in Lewisburg, PA.



Jim Marchiori

Executive Director of Global Energy Management Program, University of Colorado Denver School of Business

Jim Marchiori is the Executive Director of the Global Energy Management (GEM) Program at the University of Colorado Denver Business School. For the past seven years, GEM has been leading the way utilizing technology to deliver energy-focused graduate business education to professionals

around the world.

Over his 30-year career, Jim has been a champion for the use technology and innovation in workforce development for the oil and gas industry. He worked with companies such as International



Human Resources Development Corporation (IHRDC), Scimitar Oils Limited, S.A. (Dubai Natural Gas Company), and DCP Midstream. He has consulted to clients all over the world, including all major US and European oil and gas companies, HOVENSA, Petronas, Pertamina, Kuwait Oil Company, Abu Dhabi National Oil Company, Qatar Petroleum, Egypt General Petroleum Company, Kazakhcaspishelf/Kazakhoil, the Bangladesh Ministry of Oil, Gas, and Minerals, USAID, and the World Bank.

Jim has a BA in Political Science/International Relations from Michigan State University, and an MBA from the Stanford Graduate School of Business.



Robyn Mcguckin Climate Change Executive

Dynamic, results oriented leader skilled in strategy and business development, new product and service offering development, organizational management, change management, client service, program and project management. Areas of expertise include energy, climate and sustainability; with clients in federal agencies, municipal government, utilities,

private sector, and international financial institutes. Experience in over 20 countries including the US, Asia, Africa, the Middle East, and Europe.



Gosaye Mengistie Abayneh Chief Executive Officer, Ethiopian Electric Utility

Mr. Gosaye Mengistie Abayneh is the Chief Executive Officer of the Ethiopian Electric Utility. Prior to his current position, he served as a board member of the then Ethiopian Electric Power Corporation, since 2006, and the Ethiopian Electric Power, Ethiopian Electric Utility until August 2015.

He has also been on board for Water Works Design and Supervision Enterprise and was liaison person of the Scaling Up of Renewable Energy Program (SREP). Other capacities include serving on International Energy Institutions, mainly for, International Renewable Energy Agency (IRENA), World Energy Council (WEC), Africa Energy Commission (AFREC), USA-Power Africa Initiative, and International Energy Agency (IEA).

Mr. Abayneh has a bachelor of Arts in Economics from Addis Ababa University and Master of Science in Energy Economics from the University of Dundee, Scotland, UK.



Jason NagyFounder, Mainspring Innovation, LLC

Jason Nagy founded Mainspring Innovation, LLC (Member, Posner Center for International Development) in Colorado as an international business and economic development enterprise providing consulting services and innovative programs to advance infrastructure development, technology transfer, skills development, job creation, economic/social justice,

environmental stewardship and sustainability. Jason is also Director, Public Sector Engagement for Africa Finance and Advisory Partners, LLC, a company established to revolutionize how American businesses engage the African Continent. AFAP's approach blends the best from the public and private sectors, which is important given the available monies and strategic partners having both developmental and profit-seeking motives.

Jason led USTDA's Africa office (2008-2014) and served on Ex-Im Bank's sub-Saharan Africa business development, policy and program team. He identified and crafted over \$70mn of USTDA program funding primarily in clean energy, transport and ICT projects. In 2013, he launched the US-Africa Clean Energy Development and Finance Center and supported the launch of President Obama's Power Africa Initiative. He has an MA International Affairs from American University with concentration in international economic policy and international business, and a BA in Journalism and Political Science from Indiana University. Jason is a passionate promoter for innovation, education and collaboration!



Bryson PattersonRegional Trade Finance Specialist, U.S. Small Business Administration

Mr. Gosaye Mengistie Abayneh is the Chief Executive Officer of the Ethiopian Electric Utility. Prior to his current position, he served as a board member of the then Ethiopian Electric Power Corporation, since 2006, and the Ethiopian Electric Power, Ethiopian Electric Utility until August, 2015.



Rocío Alicia Pérez President and CEO, Inventiva

Executive with 20 years of experience in the private and public sectors, Rocío Pérez is the Principal of Inventiva Consulting, LLC. Ms. Pérez is an expert with more than 20 years in developing talent and energizing teams, designing and executing business & marketing strategies. Ms. Pérez helps companies design a strategic and profitable future by saving

them time, energy and money while increasing their productivity and profits. She is the former President and CEO, Definitive Marketing, LLC, a multicultural marketing consulting firm.

Ms. Pérez's core competency and experience includes:

- Guiding leaders through change management process
- Coaching leaders and individuals with their professional development needs
- Assessing organizational needs and implementing innovative solutions
- Creating strategic and congruent marketing strategies

Ms. Pérez holds the following degrees: a B.S. in International Business (University of Colorado), a Dual MBA in International Business and Marketing (Regis University), and a Certificate in International Entrepreneurship (University of Colorado).





Luka Powanga Professor, Regis University

Dr. Luka Powanga (left) is a professor of Economics in the College of Business and Economics at Regis University and the Executive Director of the Global Commerce Forum. He is also the founder of the Energy Africa Conference and former Managing Editor of the Journal of Global Commerce Research, the Journal of Current Research in Global Business and

US correspondent for CargoNews Asia a trade magazine based in Hong Kong.

He holds a BSC degree in Metallurgy and Mineral Processing from the University of Zambia, Masters and PhD degrees in Mineral Economics from Colorado School of Mines with a minor in Finance from the Graduate School at Denver University. He also holds a Masters degree in Computer Information Technology and Graduate Level Certificate in Object Oriented Programming from Regis University. His industry and academic experience spans over thirty years at middle and senior management levels. He consults in mining and energy, international business management and healthcare. He worked in the mining and telecommunications industry at middle and senior management level within and outside the United States. He taught at Colorado School of Mines before transitioning to Regis University.



Ambassador Michael Ranneberger President, World Insight Consulting

Ambassador Michael Ranneberger is the President of World Insight Consulting, the firm he established following his retirement last year from the Department of State. During his distinguished diplomatic career, he represented the United States in Latin America, Africa, Europe, and the Middle East.

Following his graduation from Towson University with a double major in history and social science, he obtained a Masters Degree in history at the University of Virginia, and then entered the Foreign Service. He has served as Ambassador to Mali and Kenya, and was the Principal Deputy Assistant Secretary for African Affairs, in which capacity he led policy development and implementation for the African region. Other postings included serving as Deputy Chief of Mission in Paraguay, Mozambique, and Somalia.

As the Special Representative of the Secretary of State, he helped lead negotiations which resulted in the Sudan Peace Agreement of 2005. When crisis erupted in Kenya following the disputed presidential election at the end of 2007, Ambassador Ranneberger, working closely with African Union mediator Kofi Annan, was instrumental in ending the bloodshed and bringing about fundamental reforms through adoption of a new constitution in 2010. For those efforts, he was dubbed "Ambassador of Peace" by the Kenyan people. During 2011-16, he served as the State Department's senior foreign policy adviser to three commanders of the U.S. Central Command, including now Secretary of Defense James Mattis.

He is the recipient of the State Department's Distinguished Honor Award, its highest, Presidential Meritorious Service Awards, the Department's Anti-Slavery Award for his efforts to combat human trafficking, and numerous other recognitions. As a Career Minister at the time of his retirement,

he was one of the 35 highest ranked officers in the State Department.

He is married to Ruth Konchellah.



Matt Rees Deputy Director, Power Africa

Fifteen years' experience developing and implementing programs in international development focused on economic growth including trade, energy, finance, policy reform, enterprise development and education. Thirteen years overseas with long-term assignments in: Kenya, Iraq, Colombia, Guatemala, Mongolia, and P.R. China. Short term assignments to Haiti, Jordan and Afghanistan. Presently posted in Washington, D.C.



Wiley Rhodes
Chief Executive Officer, Newpoint Companies

Wiley Rhodes, Founder of One Step In Foundation, a non-profit whose focus is to promote common ground between environmental and energy innovators. Wiley is proficient in project development, market strategy and sales with a strong interest in preserving our environment for future generations and conserving our natural resources. Wiley is also the CEO

of Newpoint Companies, founded in 1999. Newpoint designs and manufactures a full range of modular gas processing and treating units. Wiley has insured the success of Newpoint with an emphasis on Standard Module Engineering and new process innovations. He has a wide range of international experience as well as over 30 years of experience in the oil and gas industry.



Brad RogersAssociate Professor, Polytechnic Campus of Arizona State University

Brad Rogers is Associate Professor in the Department of Engineering in the College of Technology and Innovation at the Polytechnic Campus of Arizona State University, and is the Director of Research and Development for GlobalResolve, an interdisciplinary social entrepreneurship ini-

tiative at ASU that seeks to leverage the skills and talents of students and faculty at ASU and international partner universities to create sustainable enterprises in the developing world. In support of the GlobalResolve initiative, he has worked in multiple locations in the developing world, but has concentrated on West Africa, where he has taken eight groups of students to work on multiple projects in rural and peri-urban areas. His academic background is in the fields of fluid mechanics, heat transfer, magnetohydrodynamics, and applied mathematics, and he has been involved in the design and evaluation of traditional and alternative energy conversion systems for 34 years. He has been a faculty member at ASU since 1984, has taught more than 40 separate courses during his tenure, and has published more than 40 articles in refereed journals and conference proceedings. He has worked in private industry and for national laboratories.





Rob Roys Western Region Manager, Microgrids, ABB

Rob Roys has spent the last twelve years supporting the development of microgrids in Alaska. In his former role as the Manager of Business Development for Huntley and Associates, Rob nurtured the growth of the remote power market in Alaska through his involvement with many successful projects such as Kodiak Island's port integration energy storage

system, Chugach Electric's hybrid energy storage system and more. Whether through the creation of the Alaska Energy Storage Working Group, enabling advanced capabilities in a microgrid lab, or hosting energy education workshops, Rob has driven innovation in the Alaskan microgrid market by fostering collaboration across organizational boundaries. Rob joins the ABB Microgrids team as a recent transplant to Denver where he spends his free time on adventures with his wife, Amy, and their two children, Wayland and Finn. Whether as energy advocate, opportunistic river guide, or husband and father, Rob's passions motivate him to invest in a sustainable future as he explores the grid's edge in both work and play.



Mark D. Safty
Wirth Chair in Sustainable Development, University of Colorado
Denver

Mark Safty was appointed as the Wirth Chair in Sustainable Development at the University of Colorado in 2013. The Wirth Chair is housed within the School of Public Affairs at UC Denver and honors the environmental and sustainable development achievements of former U.S. Senator and

Undersecretary of State Tim Wirth. Following his work with the federal government, Wirth served for nearly a decade as the President of the United Nations Foundation. In over 25 years as a partner at Holland & Hart, LLP, companies operating on five continents turned to Mr. Safty for virtually every type of infrastructure development and financing transaction. He has extensive experience developing and financing infrastructure projects in the energy, healthcare, water, wastewater, and transportation sectors. Mr. Safty has served as lead counsel in the development, acquisition, financing, and refinancing of dozens of power generation facilities across the spectrum of energy technologies. For nearly 20 years, Mr. Safty has focused his practice almost exclusively on development, construction, financing, and M&A activity in the renewable and sustainable energy industry. His earlier years of experience included the positions of general counsel and COO of a regional bank holding company, and he served as an outside director and chairman of the board of a \$2.5 billion financial institution. Mr. Safty currently serves as the practice group leader for Holland & Hart's Energy & Infrastructure Group. He is listed in The Best Lawyers in America® for project finance law and his practice group is recognized as a global leader by Chambers USA. He was recently selected as "Colorado's Best Renewable Energy Attorney" by Law Week Colorado. Mr. Safty is an adjunct professor at the University of Colorado Law School and at University of Denver's Sturm College of Law, where he teaches courses on Renewable Energy Development, Regulation, and Finance. He is a frequent speaker at national and international conferences on renewable and sustainable energy topics.



Jonathan S. Saiger
Senior Operations Advisor, Millennium Challenge Corporation

Jonathan S. Saiger is a Senior Operations Advisor in the Infrastructure, Environment and Private Sector Division at the Millennium Challenge Corporation (MCC). He focuses on energy investment work associated with proposal assessment and project implementation oversight in Compact eligible and threshold countries.

Mr. Saiger's work at MCC has spanned projects in ports, airports, energy (gas and electricity), roads, health facilities, tourism, education, and water and sanitation across several MCC eligible countries including Benin, Georgia, Lesotho, Liberia, Malawi, Mozambique, Namibia, Nepal, Nicaragua, Tanzania and Zambia.

Previously Mr. Saiger was Vice President in the Energy and Infrastructure Investment Banking Group at PricewaterhouseCoopers Securities LLC. In addition to operating his own advisory firm, he held investment advisory positions at First Interstate Bank's investment groups and Bank of America.



Everod Samuel, PEPresident, Samuel Engineering, Inc.

Everod Samuel is a Registered Professional Engineer with over 25 years of project management, design, design management, and construction/commissioning experience for large industrial projects in the mining, electric utility, oil & gas, power generation & transmission, chemical, and mineral refining industries.

As President, Everod is excellent at building high performance teams that are committed to achieving project goals. He anticipates problems before they occur and ensures corrective actions are implemented.

As Vice President of Engineering and Project Operations for a large world-class engineering company he directed Project Managers, Project Engineering, CAD and MIS, Procurement, Estimating, Project Controls and Construction Management departments.

As Engineering Manager, Everod has been responsible for directing all design engineering disciplines and for coordinating the design engineering functions for large projects to ensure the innovative, correct and timely preparation of designs, drawings and specifications.

As the Principal Electrical Engineer for large engineering companies, Everod designed, supervised, developed standards and started up projects involving large motors (up to 24,000 hp), generators, Variable Frequency Drives (VFDs) up to 21,000 hp, 15 kV switchgear, 230 kV / 120 MVA substations, 90,000 Amp DC transformer/rectifiers etc.

As a Project Manager, he has executed fixed price and reimbursable projects all within budget and schedule.





Ellen StechelDeputy Director at ASU LightWorks, Arizona State University

Ellen Stechel is Deputy Director at ASU LightWorks, Senior Sustainability Scientist for the Julie Ann Wrigley Global Institute of Sustainability, Managing Director of LightSpeed Solutions, and Professor of Practice at the School of Molecular Sciences at Arizona State University. Her career has afforded her opportunities to build and/or coordinate research programs

at a national laboratory, industry and government agency, and now in higher education at ASU, in both basic and applied research, in techno-economics, commercialization of emerging technologies, and in multi-disciplinary R&D management. Stechel has held and holds numerous positions of an advisory or editorial capacity nationally and internationally and has published over 100 peer reviewed articles. Her current research focuses on materials and systems design for concentrating solar technologies to produce sustainable liquid hydrocarbons from carbon dioxide, advanced water splitting, thermochemical energy storage, and clean water.



Azra TutuncuDirector, Unconventional Natural Gas Institute, Colorado School of Mines

Dr. Tutuncu held various research and leadership assignments in Well Engineering, Rock Physics, Geomechanics and Subsurface R&D groups at Shell International Exploration and Production Company and Shell Oil Company in Houston and in the Netherlands before joining Colorado

School of Mines faculty. Her interest areas include rock-fluid interactions, integrated borehole stability, geomechanics, reservoir characterization and formation damage detection, mitigation and removal. Dr. Tutuncu has over fifty publications in peer reviewed journals and conference proceedings in addition to over sixty reports in research and implementation of novel technologies in Deepwater Gulf of Mexico, Unconventional gas and oil shale, heavy oil sands and carbonates integrated borehole stability, in situ stress and rock property determination, nonlinear rock deformation and failure, pore pressure and fracture gradient prediction, stimulation, drilling and drill in fluid design and compatibility analysis. She holds several patents on pore pressure prediction, attenuation and acoustic stimulation. Dr. Tutuncu is a member of SPE, SEG, Sigma Xi, ARMA, AADE and Pi Epsilon Tau and has been actively involved in SEG, SPE and ARMA organizations over twenty five years. She is currently members of technical review committees in all three organizations, a representative of SEG in AGI Environmental Geoscience Advisory Committee, and SEG Research and Global Affairs Committees in addition to being an Executive Board Member and Former President of American Rock Mechanics Association. Dr. Tutuncu is a member of the EPA Scientific Advisory Board on Hydraulic Fracturing Research since March 2013. She is licensed Professional Petroleum Engineer and Geoscientist in the State of Texas.



Ravi Vora

Advisor-International Programs, Renewable Energy Grid, National Renewable Energy Laboratory-NREL

Ravi R. Vora is an experienced international energy executive with focus on clean energy. He has a successful track record in renewable energy (Solar, Wind, and Biomass), power generation, international electric utility, oil/gas industries (upstream, mid-stream, LNG, refining, petro-

chemicals) and commercialization of disruptive clean technologies including energy storage. His career in the international energy spans from first of a kind global commercialization of synthetic lubricants for a major oil company to marketing, trading of clean fuels, natural gas liquids, natural gas as well as electricity covering both the physical and financial transactions.

He has comprehensive knowledge and relationships related to clean energy economy in North America (including Mexico), Southern Africa, South Asia and Middle East. He has led successful business models in clean energy both in private sector (Creation of a multi-billion dollar Suzlon-global leader in wind energy) to public sector (Advising Eskom on RE when South Africa's RE IPP attracted over \$17 Billion investment in less than five years and on creating a clean fuels /natural gas strategies and regulations). Leads and facilitates international energy conferences in workshops in USA, South Africa and India. He possesses in-depth experience and a proven track record in all phases of development, organization, financing and monetization (A to Z) of full life cycle based clean energy business ventures. He has a strong network of relationships with key stakeholders in the global clean energy markets especially in emerging economies. He has BS and MS in Chemical Engineering and Masters in International Management from USA and lives in Arvada Colorado.





William Ross Williams Chief Executive Officer, Altresco

Williams's career has spanned over 4 decades, 3 continents, and taken him from parts boy for Williams Electric in western Colorado to developing and financing electrical generating facilities in New England, the Philippines, and India. His unique knowledge base has been gathered as a result of understanding the complete system dynamics that all need to

work together for any one subsystem to be relevant.

He has been involved in renewable energy integration strategies since 2006. During this time, he has worked collaboratively with many utilities, transmission planning, and Independent system operators including Southwest Power Pool, Xcel, ERCOT, MISO, and CAISO as a voluntary advisor. and collectively came up with Microgrid configurations. Also, he has spent substantial time understanding top to bottom understanding of the RSA energy systems, as well as possible including SAPP, which runs the grid for much of Sub-Saharan Africa.

In a nutshell, Williams had to become very familiar with virtually every item and system dynamics needed to put complete project financing together on the first gas to power cogeneration facility to be project financed in the US, to an 800-million-dollar coal plant in the Philippines, and the first IPP to be financed and constructed in India.

Since retiring from international development in 2000, Williams has been focused on clean and renewable energy for everything from EV's to microgrids and energy sources from generator or gas well to meter at the consumer end.

It's been a long evolution, but Williams is very excited today because his ability to think and understand energy, electricity and water systems and their interdependency is identifying the most promising opportunities of his lifetime.

CONFERENCE COMMITTEE CHAIRS

Conference Chairman:

Luka Powanga, Conference Chairman and Co-founder, Energy Africa Conference

Robert Stoner, Deputy Director, Massachusetts Institute of Technology (MIT) Energy Initiative

Program Committee Members:

Derrick Hudson, Associate Professor, Colorado School of Mines

Carol Tappenden, Social Investment and Philanthropy

Azra Tutuncu, Harry D. Campbell Chair and Director, Unconventional Natural Gas and Oil Institute (UNGI), Colorado School of Mines

Mark Safty, Partner, Project Development, Holland and Hart Bai K Blyden, Senior Engineer, Southern Nuclear Services Jason Nagy, Founder, Mainspring Innovation, LLC

Ravi Vora, Former Advisor-International International Programs, Renewable Energy Grid, NREL

Paul Ndione, Research Scientist, National Renewable Laboratories, NREL

Marketing Committee Members:

Atupele Powanga, Project Manager and Social Media Consultant and co-founder, Energy Africa Conference

Rocio Perez, President and Chief Executive Officer, Inventiva

Carol Tappenden, Sustainability Consultant

Poster Presentation Organizer:

Derrick Hudson, Associate Professor, Colorado School of Mines

Papa Loum, Electrical Engineering graduate student, University of Denver

Amdom Giday, Computer Engineering graduate student, University of Denver

Logistics:

Michael Allender, Project Manager, HP (retired)

Melanie Loza, Administrative Assistant, College of Business and Economics, Regis University

Mistress of Ceremony:

Rocio Perez, President and Chief Executive Officer, Inventiva Consulting



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Chemonics supports energy sector growth and reform in developing countries around the world. We take a multidisciplinary approach to global development and infrastructure challenges to help people live healthier, more productive, and more independent lives. We believe in developing equitable and sustainable energy services that scale through innovative planning tools, capacity building, and policy and regulatory reform. Working alongside local stakeholders, Chemonics focuses on full cost recovery balanced with transparent social programs, low-emission development, and efficient market structuring. To ensure sustained growth, we also help governments and private sector stakeholders increase opportunities for investment through public-private partnerships and project finance.











REGIS UNIVERSITY COLLEGE OF BUSINESS AND ECONOMICS



Regis University's College of Business and Economics (CBE) has lofty goals: To imbue Jesuit values into business education by teaching students to place ethics at the heart of all business matters and operate according to Jesuit principles.

CBE offers programs to undergraduate and graduate students designed for both traditional students and working professionals. The College of Business and Economics offers bachelor's in accounting, business administration, economics, finance, human resources management, and marketing, as well as master's degrees in accounting, organizational leadership, project management, nonprofit management, and marketing. The MBA is available with specializations in accounting, finance, health industry leadership, marketing, and strategic management. Academic certificates are also offered.

Jesuit principles are at the core, among them service to humanity, self-reflection, positive engagement and combining practical skills with critical thinking skills.



MEET SAMUEL ENGINEERING, INC.



SE Corporate Headquarters - Colorado USA

Samuel Engineering Inc. (SE) is a Denver, Colorado USA based multi-discipline engineering, procurement and construction management (EPCM) company that was started by Claudia Samuel, MSEE in 1996. From SE's inception to the year 2000 Claudia focused the company on providing solutions to complex electrical and controls problems in the power, oil & gas, chemical, mining and government sectors.

In 2000, Everod Samuel, PE, MSEE, MBA who was functioning as the USA's VP of Engineering and Project Operations for a large ENR top 5, global EPCM company joined SE with the charter of converting SE to a unique multi-discipline EPCM company. This was achieved in 2001.

Since then, SE has grown to over 185 full time professionals and has successfully executed hundreds of projects in the USA, Canada, Central and South America, Europe and Africa. For the last 10 years, SE has focused on providing solutions to three primary heavy industrial sectors, namely; oil and gas, minerals & mining and power generation/distribution.

Beyond SE's center-of-excellence and corporate headquarters in the Denver Tech Center, are satellite USA offices in Durango, Colorado, Utah and Wyoming.



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