



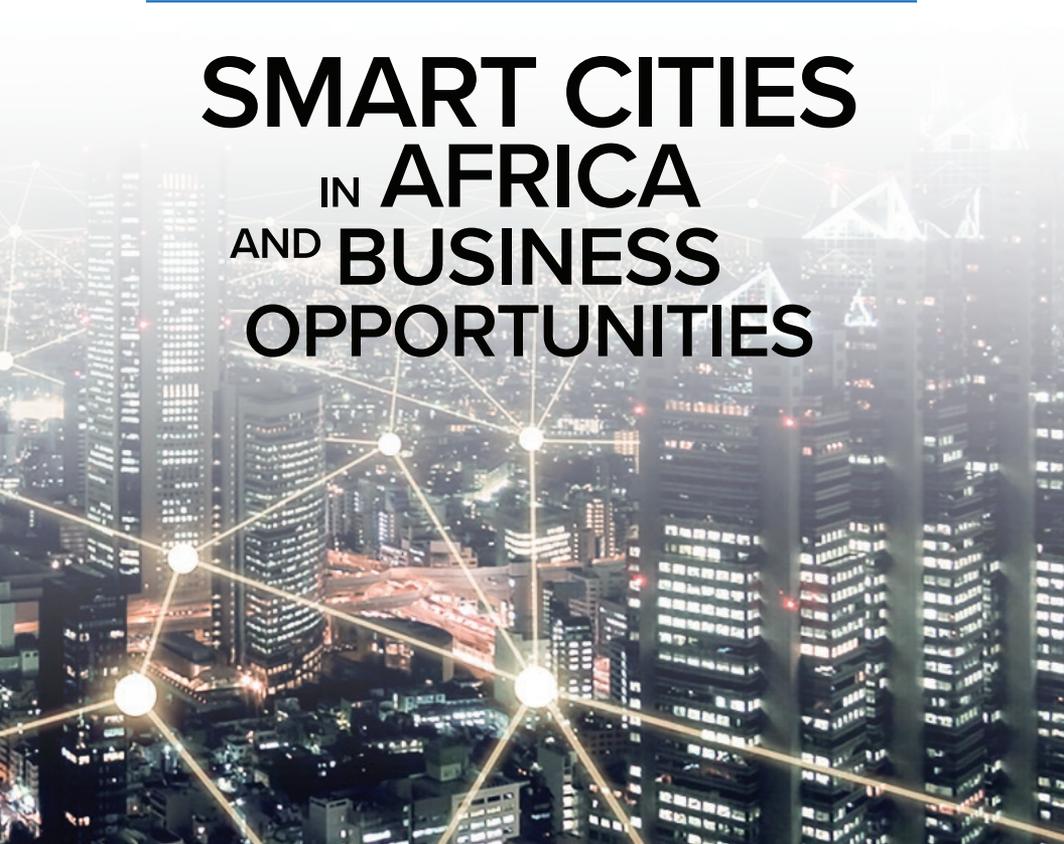
www.energyafricaconference.com



ENERGY AFRICA

12th ANNUAL CONFERENCE

SMART CITIES IN AFRICA AND BUSINESS OPPORTUNITIES



NOVEMBER 14TH & 15TH 2019

Sheraton Denver Downtown Hotel • Denver, Colorado

www.energyafricaconference.com

Welcome to Colorado and the 2019 Energy Africa Conference

This year marks the 12th 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 "Smart Cities and Business Opportunities", will focus on how Smart Cities could be a catalyst for deploying sustainable and resilient energy systems. The extended drought that has gripped many parts of the continent illustrate how vulnerable the African energy systems are to changes in climatic conditions. Stable energy systems are crucial to sustainable economic development to 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

ORDER OF EVENTS

DAY ONE: THURSDAY, NOVEMBER 14TH

7:00 AM - 5:00 PM REGISTRATION

7:00-8:30 AM Networking Breakfast

8:00-8:25 AM Welcoming Remarks and The Case for Smart Cities in Africa

Luka Powanga, Founder, Energy Africa Conference and Professor, Anderson College of Business, Regis University

Keynote: The Case for Smart Cities in Africa

David Owens, Executive Vice President (retired), Edison Electric Institute

8:25-8:45 AM The Future We Want

Hunter Lovins, President and Founder, Natural Capitalism Solutions

8:45-9:10 AM New Energy Economy

Bill Ritter, Founder, Center for New Economy Colorado State University and Former Governor of Colorado

9:10-9:35 AM Utilities Regulations and Lessons for Africa

Jeffrey Ackerman, Chairman Colorado Public Utilities Commission

9:35-10:00 AM The Hydrogen Economy

Trammell S. Crow, Founder, Earth X

Chip Comins, Chairman and CEO, American Renewable Energy Institute

10:00-10:30 AM Networking Break

10:30-11:30 AM Energy Integration, Transformation and Efficiency

Moderator: Jason Nagy, Founder, Mainspring Innovation, LLC

Panelists:

- **Tim Reber** is a Project Lead for International Programs at the U.S. National Renewable Energy Laboratory (NREL).
- **Karlynn Cory**, Group Manager – Project Development & Finance, NREL
- **Brent Nelson**, Group Manager, NREL

11:30-12:00 PM Utilizing Technology for Successful Smart Cities

Carl Ledbetter, Managing Partner Pelion Ventures Partners

12:00-12:30 PM Networking Lunch and Award Presentation

12:30-1:00 PM Ministerial Address

Hon. Matthew Nkhuwa, Minister of Energy of the Republic of Zambia

1:00-1:15 PM Colleges as Centers of Knowledge and Social Justice

Thomas G. Bowie, Interim Dean, Anderson College of Business, Regis University

1:15-1:40 PM What are Smart Cities?

Matthew James Bailey, Smart Cities, Smart Regions Expert, Cambridge

1:40-2:10 PM Business Development Through Impact Strategy and Application to Smart Cities

Wendy Lipton-Dibner, President, Professional Impact, Inc. and Founder of the Action Movement™

2:10-2:40 PM Energy Policy and Power Generation

State Rep. Dominique Jackson, House District 42, Aurora Colorado and Chair of the Energy & Environment Committee

2:40-3:30 PM Smart Cities in Africa

Medical and Technology City

Julius Mwale, Principal, Mwale Medical and Technology City (MMTC)

Konza City in Kenya

Steve Brooks, Principal, OZ Architecture

3:30-5:00 PM Funding Smart Cities

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

Panelists:

- S. Gabriel Shumba, Founder & Managing Partner, Group Shumba
- Vincent Chakulya, Managing Director, PowerHouse Energy TransAfrica LTD, Zambia
- Terry Williams, Chairman and CEO, GlobalTrust Funds
- Tim Jones, Client Manager and Analyst Innosphere and ICI Fund
- Morgan Defoort, Co-founder and Managing Principal, Factor[E] Ventures

5:00-5:45 PM Energy Africa Initiatives from the Field

Moderator: Luka Powanga, Founder Energy Africa Conference, and Professor of Economics and Finance, Anderson College of Business, Regis University

Panelists:

- **Lewis Ncube**, Founder & CEO Synergy Ventures International Limited
- **Richard Lackey**, CEO and Chairman, World Food Bank

6:00-9:00 PM Networking Reception

DAY TWO: FRIDAY, NOVEMBER 15TH

7:00 AM - 4:00 PM REGISTRATION

7:00-8:10 PM Networking Breakfast

8:30-8:50 AM Welcome Remarks Recap of Day 1

Luka Powanga, Founder Energy Africa Conference, and Professor of Economics and Finance, Anderson College of Business, Regis University

Recap of Day 1

Jason Nagy, Founder, Mainspring Innovation, LLC

8:50-10:25 AM Partnerships as Catalysts for Smart City Success and Business Resources

Moderator: Lana Lennberg, Senior International Trade Specialist, US Department of Commerce

Panelists:

- **Paul Bergman**, Director US Export Assistance Center, Denver
- **Karen Gerwitz**, CEO and President, World Trade Center, Denver
- **Purnima Voria**, Founder and CEO, US-India Camber of Commerce
- **Amanda Fong**, Foreign Service Officer, United States Agency for International Development (USAID), Power Africa

10:25-11:00 AM Educational Institutions as Centers of Innovation

Bryan Willson Executive Director, Energy Institute Colorado State University

11:00-11:15 AM Mayor's Address

Mayor Michael B. Hancock, Mayor of the City of Denver

11:15-11:45 AM **A New View of Africa**

Ved Nanda, Professor Emeritus, Sturm Law College, University of Denver

11:45-12:30 PM **Networking Lunch**

12:30-1:15 PM **Luncheon Speaker: Showcasing the Denver Smart City Project**

Kjell Persson, Vice President, CityNOW, Panasonic

1:15-2:30 PM **Technology for Successful Smart Cities**

Moderator: Ben Walker, Executive Director, Artificial Intelligence and Life Sciences Innosphere

Panelists:

- **Lisa Larson**, Vice President, HDR International
- **Bryan Willson**, Executive Director, Energy Institute Colorado State University
- **Michael Farina**, Executive Leader-Strategy and Growth, Integrated Gas and Power Solutions Baker Hughes
- **Ngueti Armand Gaetan**, President and Founder, UBTS

2:30-2:50 PM **Closing the Gap Between Urban and Rural Communities**

Daniel Zimmerle, Senior Research Associate, Colorado State University

2:50-3:50 PM **Women in Energy and Entrepreneurship**

Moderator: Patrice Barber, Managing Partner, TMS-Colorado and CEO, Career Conx

Panelists:

- **Constance Moonzwe**, Executive Director and CEO, ITH Staffing
- **Lisa Larson**, Vice President, HDR International
- **Amanda Fong**, Foreign Service Officer, United States Agency for International Development (USAID), Power Africa
- **Freda Mwamba Brazle**, Chief of Staff and Initiative Leader, National Accounts Clinical Strategies, Anthem

3:50-4:20 PM **Moving Forward - What will you do next?**

Opportunity for participants, speakers and organizers to commit to a way forward, provide additional thoughts on what resonated and make plans for progress for Energy in Africa.

Moderator: David Owens, Executive Vice President (retired), Edison Electric Institute

4:20-4:30 PM **Wrap Up**

Luka Powanga, Founder Energy Africa Conference, and Professor of Economics and Finance, Anderson College of Business, Regis University

SPEAKERS



JEFFREY ACKERMAN

Chairman, Colorado Public Utilities Commission

Jeffrey Ackermann is Chairman of the Colorado Public Utilities Commission (PUC) appointed in 2017 by Gov. John Hickenlooper to a four-year term.

Prior to his appointment, Jeff served as executive director of the Colorado Energy Office (CEO). On behalf of the governor, CEO promoted clean energy policies and markets through programs and advocacy, including at the PUC.

He has more than three decades of experience in state government and the energy sector. Previous to his CEO appointment, Jeff led the policy research efforts at the PUC, assisting the commission prepare for changing markets and technologies. Jeff also served as an advisor to the commissioners on energy efficiency (demand-side management). Jeff also worked in product development in the utility sector, focusing on renewable energy as a voluntary product offering.

Jeff started his professional career in the service of low-income energy consumers, twice as director of the state's energy efficiency assistance program (weatherization) as well as an advocate for energy consumers with the state's nonprofit energy assistance fund.

Jeff earned a bachelor's degree from Albion College and a master's degree in non-profit management from Regis University.



MATTHEW JAMES BAILEY

Smart Cities, Smart Regions, Cambridge

Matthew, together with Innovation Corridor, has co-founded - a Supercomputing Modeling and Artificial Intelligence Cluster for Smart Cities and Regions. This provides US national leadership and fast tracks digital transformation for regions and the development of societal systems enabled by IoT and Artificial

Intelligence.

The Cluster partners with NIST, NTIA, DHS and has been included within the US federal program - Global Cities Team Challenge.



PATRICE BARBER

Managing Partner, TMS-Colorado and CEO, Career Conx

Patrice is a Digital marketing trailblazer and CEO of Career Conx. She is a serial entrepreneur and an executive leader recognized for vaulting company brands from the back alley to the first page

of Google. Transforming In-person business development into On-line lead generation.

Patrice is data-driven and tech-focused to deliver ROI and repeatable results in Business Development operations. She is known for delivering solid results in recruiting, managing, and mentoring local and international teams who collaboratively apply measurable analytics to go-to market initiatives. Her expertise includes Pitch preparation, go to market strategies, CRM Implementation in diverse areas such as Manufacturing, Financial Services, Professional Services, and SAAS Software Development.



PAUL BERGMAN

Director, US Export Assistance Center

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 Commercial 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.



THOMAS G. BOWIE

Interim Dean, Anderson College of Business, Regis University

Dr. Thomas G. Bowie, Jr., holds a bachelor’s from the United States Air Force Academy, a master’s from Denver University and a Ph.D. in English Literature from Brown University. In 2004, he retired as a colonel after serving over 28 years with the U.S. Air Force, including three assignments to the

Department of English and Fine Arts at the Air Force Academy, where he served for four years as department chair.

An authority on the literature of war, he has also taught courses in composition and speech, as well as British, American, and contemporary literature. His research and publications focus on the human dimension of conflict, on personal narratives that bear witness to modern war, and on the journey toward reconciliation that inevitably follows such conflicts. For more than a decade, he served as an associate editor, then as the managing editor, of “War, Literature, & the Arts”, an international journal of the humanities. His essay on Hemingway and the resonance of war “in our time” was published in “War and Ink: New Perspectives on Ernest Hemingway’s Early Life and Writings” by Kent State University Press in 2014. Bowie’s research interests also include 20th century Catholic literature and his recent publications feature several essays on the literary non-fiction of Andre Dubus.

An active participant in the national dialogue concerning the future of higher education, Bowie has presented at national conferences (such as AAC&U) on interdisciplinary education, particularly as such integrative efforts intersect with our evolving understanding of what best constitutes a formative educational experience in the 21st century. Based upon his expertise in this area, he served as the project leader on a faculty development grant sponsored by the W.M. Keck Foundation. As the director of the Integrative Teaching Institute from 2011-2014, Bowie helped develop the integrative capacity of two-thirds of the Regis College faculty through an innovative summer institute, which ultimately enabled thousands of students to think creatively and critically across disciplines as they worked collaboratively to seek solutions to timeless problems. Bowie became the Academic Dean of Regis College on June 1st, 2014, and he stepped in as the Interim Dean of the Anderson College of Business in May of 2019.



FREDA MWAMBA BRAZLE

Chief of Staff & Initiative Leader, National Accounts Clinical Strategies, Anthem

Freda is a problem solver and has an expertise in using collaborative change acceleration and risk management techniques to address business and social opportunities and challenges. Freda is a transformational leader who is strategic and uses organizational and process management techniques derived from global experience to execute and deliver results. She has worked across government, beverage, manufacturing, service, consulting financial and healthcare industries from New York City Housing, The Coca Cola Company, General Electric, Andersen Business Consulting, Bank of America and Anthem Blue Cross Blue Shield.

Freda serves as Zambia’s Country Representative for the Conference of Western Attorneys General where she has facilitated training for over 400 legal professionals in Zambia on transnational crimes. She is recognized as focused, passionate, creative and driven, with extraordinary leadership skills.

In 2014, she founded Zambia’s Promoting Leadership in America (ZLA) which is a nonprofit organization with an obsession for excellence, focused on transformational leadership, education, and raising the bar. ZLA promotes entrepreneurial, investment and business

opportunities between Zambia and the United States.

She graduated with a BBA in Management Information Systems and a Master of Science in Accounting from Pace University, New York City. She is a Certified Public Accountant, Master Black Belt in Lean Six Sigma and recently completed her Doctorate in Business Administration with a focus on Leadership and Change Management concepts and theories.



STEVE BROOKS

Principal, OZ Architecture

Steve is a principal at OZ Architecture, a graduate and post-graduate of the University of Colorado with a master's degree in Architecture. He has 40 years of experience practicing "green" architecture for healthcare, science and technology facilities

in Colorado and internationally. In Africa, he has served as a visiting lecturer at Makerere University's Faculty of Technology in Uganda and more recently with urban planning in Rwanda and Kenya that is economically, socially and environmentally sustainable, utilizing the art of place-making to create value, a sense of community and stages for collaboration and innovation.



VINCENT CHAKULYA

Managing Director, PowerHouse Energy TransAfrica LTD, Sambia

With a wealth of more than 25 years' experience in the private and public sectors encompassing Economic Analysis, International Business networking (IBN), Privatization, Public Sector Reforms, Management Consultancy, Strategic

Management, Government, Project Management, Project Financing, Organization Design and Development, Human Capital Management, Business Process Reengineering (BPR), Tertiary Education, Business Startups, among others. He has international travel and exposure in almost all continents, working or doing business in Australia, Canada, Ghana, India, Kenya, Malaysia, Philippines, South Africa, Uganda, Singapore, United Kingdom, United States of America and Zambia. Vincent holds a MA (Economics) from the University of Manchester in the UK and a BA (Economics) from University of Zambia.

He has served at various top positions in the Zambian Central Government including that of a Deputy Director in the Cabinet Office of Zambia. He was also Manager of Human Capital for the Konkola Copper Mines under the Vedanta Group, which is a FTSE 100 London Stock Exchange listed company with over 30,000 employees all over the world. He worked as Vice President – International Development for the Hazon Group Inc., Washington State USA, where he also served as part of the executive board. He held top positions in several USA companies based in Africa. He is highly and strategically

networked/connected to top finance as well as Engineering, Procurement and Construction (EPC) institutions in USA, Europe and Australia. He has served as an anchor, link and representative of several American, Australian and Malaysian companies on the continent of Africa. As an independent Project Consultant, Vincent has now become an international key person in facilitating increased and strategic investments in Africa and the Middle East, particularly in growth sectors such as infrastructure development (affordable housing, commercial buildings, railway and road construction), energy, agriculture, education, health, mining, tourism and manufacturing.



CHIP COMINS

Chairman 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.



KARLYNN CORY

Group Manager - Project Development & Finance National Renewable Laboratories (NREL)

Karlynn Cory is the Group Manager for Project Development & Finance in the Integrated Applications Center at NREL.

The mission of the Group is to inform the direction of future technology and policy research at NREL by helping clients meet ambitious energy goals in today's marketplace. The Group partners with government agencies, utilities, and private sector decision-makers to develop resilient energy strategies, conduct techno-economic analyses, and identify effective project development pathways. The Group provides analytical support, business case assessment, and market intelligence on energy efficiency, resiliency, and renewable energy options to inform client decision making.



TRAMMELL S. CROW

Founder, EarthX

Trammell S. Crow is a Dallas, Texas-based businessman, philanthropist, entrepreneur and innovative leader in business development and operations. He is the Founder of Earth Day Texas, “the world’s largest Earth Day celebration,” which in 2016 drew more than 130,000 visitors to Dallas’s Fair Park for the two-day event. Earth Day Texas teaches visitors, businesses and school children the benefits of green living and environmental sustainability.

Mr. Crow serves on the Board of Directors of Million Acre Pledge, a 501(c)(3) charity that commits individuals, businesses and foundations to conserve or restore large areas of forest and other bio-rich natural areas to save irreplaceable ecosystems, stop CO₂ emissions on ecosystem loss and enable CO₂ absorption by recovering ecosystems, and to encourage and inspire forest and other ecosystem conservation. He has committed to protect 250,000 acres of forest in Suriname.

In September 2016 Mr. Crow was honored at the 20th anniversary Global Green Awards in recognition of his work in advancing sustainable and resilient communities to best support Earth’s natural systems, stem climate change, protect human health and improve livability for all.

The son of Trammell and Margaret, the former being the founder of the Trammell Crow Company, Mr. Crow is the President of the Crow Family Foundation, which operates and manages the Trammell & Margaret Crow Collection of Asian Art and the Trammell Crow Sculpture Garden in the heart of the downtown Dallas Arts District.

A graduate of Yale University, Mr. Crow began his business career as a warehouse leasing agent in Denver. He transferred to Houston and developed residential subdivisions and leased retail space. In Dallas, he joined the development team of the signature Anatole Hotel and worked at Dallas Market Center, expanding its exhibition and retail space by over 2 million square feet. He developed the Dallas Communications Complex, the Studios at Las Colinas, the INFOMART and the Dallas Fort Worth Teleport. From 1986 to 1993, Mr. Crow was Chief Executive Officer of Trammell Crow International.

Mr. Crow is co-founder of Texas Business for Clean Air and Texans for Clean Water. He serves on the Board of Directors of Space Center Houston and American Renewable Energy Institute and is on the Advisory Board of Environmental Defense Fund Texas and Texas Land Conservancy, among others. He is a long-time supporter of the Texas Conservation Alliance, the Nature Conservancy of Texas, Texans for Lawsuit Reform, Log Cabin Republicans and the League of Conservation Voters.

Mr. Crow serves on the Development Board of University of Texas at Dallas and has on-going associations with Paul Quinn College, the Dallas Community College District Foundation, Trinity River Improvement Association and McKinney Avenue Contemporary art gallery, among others.

The father of Nathan, Margaret, Daniel and Isabella, Mr. Crow resides in Dallas, Texas, where his hobbies include rock collecting and sharing his love of music, art and reading.



MORGAN DEFOORT

Co-founder and Managing Principal, Factor [E] Ventures

Dr. Morgan DeFoort is the co-founder and Managing Principal of Factor[e] Ventures, a venture development firm which supports early-stage disruptive technologies in the areas of energy, agriculture, mobility, and waste. Morgan has a background in technology development and entrepreneurship. Before starting Factor[e], Morgan was a Co-Director of the Energy Institute at Colorado State University, leading R&D programs in a wide range of technology areas including engine systems, biofuels, and cookstoves. He also serves on the Board of Directors for Odyssey Energy, and Homer Energy; Factor[e] portfolio companies.



WENDY LIPTON-DIBNER

President, Professional Impact Inc

WENDY LIPTON-DIBNER, M.A. is the world's leading authority on business development through impact strategy. President of Professional Impact, Inc. and founder of the Action Movement™, Wendy is internationally recognized for her unparalleled ability to help clients maximize and capitalize on the impact they bring to people's lives through their message, products and services.

Wendy serves as a trusted advisor to doctors, executives, start-up entrepreneurs and top influencers across a wide range of industries. A sought-after media guest and keynote speaker, she has built 10 successful businesses of her own, delivered thousands of business growth programs for corporate, healthcare, small business, non-profit and entrepreneurial organizations and has spoken for hundreds of thousands of people on stages around the globe.

Wendy received her Masters Degree in sociology and social psychology from Duke University and was recruited by Texas Christian University for a position as a university instructor and director of organizational research studies. One of her projects caught the eye of the United States Senate, where her presentation influenced a decision that has since helped millions of people.

Driven to make an even wider impact, Wendy left academia to open her first business: a social laboratory to develop and test formulas to move people to action. Within three months, her retail and service sales skyrocketed beyond industry standards and she became a sought-after consultant for small businesses, sharing the formulas she'd discovered for sales, leadership and customer service.

Wendy went on to achieve certification in three schools of psychology and built a private practice specializing in sales professionals. Her proprietary blend of psychotherapy, sales

and leadership training helped her clients dramatically increase revenues, leading to a swell of invitations for consulting and training in for-profit and non-profit organizations where she became known for creating solid results in record time.

Since then, Wendy has impacted millions of lives through her bestselling books, live events, world-class keynotes and media appearances, online courses and in-house training programs. Her books are required reading in hospitals, medical practices, dental schools and businesses, and her work has been widely published in business, healthcare and social science journals, magazines and e-zines. Her internationally-acclaimed, Move People to Action™ Live Event and E-Course have been named, “The most comprehensive training ever created for impact-driven entrepreneurs” and her Difference-Maker Summit™ has been called “The do-not-miss event for anyone who is driven to make a global impact.”

In addition to serving clients, Wendy’s greatest joys are sharing laugh-’til-you-cry experiences with cherished friends, and cozy evenings with her husband/business partner, Dr. Hal Dibner, and their fluffy son, Parfait.

writer and artist, she believes that cross sectoral partnerships are key to developing innovative sustainable solutions to seeming unsurmountable problems. Based in Washington, D.D., Brandy is a Certified Energy Manager, owner of Last Mile Solutions and a partner in DreamAfrica Consulting. She lived and worked in West Africa for seven years as a Peace Corps Volunteer, contractor for the US Embassy, and business owner. Throughout her career she has focused on developing tri-sector leadership; connecting business solutions to public problems with education and awareness implemented through nonprofit and community outreach efforts. Her engineering work focuses on implementation of sustainable technologies that harness the power of nature to provide economic opportunities for rural off-grid areas in Africa. Brandy has spoken extensively on water/energy nexus issues and authored articles on water resource management and a book on sustainable agriculture.



MICHAEL FARINA

Executive Leader-Strategy and Growth, Integrated Gas and Power Solutions, Baker Hughes

Michael is an executive leader at Baker Hughes. He is responsible for business development of integrated gas and power products and solutions. This includes early engagement and conceptual design on integrated gas and power projects. As a leader in Baker Hughes, he is also part of the Strategy and Marketing team helping to drive the companies gas value chain strategy and advance Baker Hughes’ global gas leadership with external partners and other stakeholders.

Michael has been gas and power strategy leader in the industry for more than two decades. He worked over the last ten years at General Electric in a variety of roles in support of the oil and gas and the power divisions. He joined the new Baker Hughes Company in 2018. Michael has focused on strategic marketing and business development related to unconventional resources, natural gas systems, gas to power, and distributed

power including gas-renewable hybrids. In 2011, he authored Flare Gas Reduction: Recent global trends and policy considerations. In 2013, he was lead analyst and primary author of the Age of Gas and the Power of Networks and China's Age of Gas white papers. In 2015, he published Gas to Power, Fast and Flexible Electricity for Rapidly Developing Countries. More recently, his focus has been flare gas solutions and complex gas project development including origination, technology solutions, and structuring.

Previously he was a Director of natural gas consulting at Cambridge Energy Research Associates (IHS-CERA) and has worked on LNG, pipeline, and gas-fired power plant development around the world. Michael holds a BA in Economics from Colorado State University and a MA in Economics from the University of Colorado.



AMANDA FONG

Foreign Service Officer, United States Agency for International Development (USAID)

Amanda Fong is a Foreign Service Officer with the United States Agency for International Development (USAID). She joined USAID in 2008 and has since served mostly abroad, in Azerbaijan, Afghanistan, and Mozambique, with short stints in Washington DC. She joined the Power Africa team in May 2019 as the Relationship Management Team Leader, focusing on how Power Africa can work effectively with private sector partners to achieve increase access to energy in Sub-Saharan Africa. In her various positions with USAID, she has designed and managed a variety of technical portfolios, including in trade, agriculture, business enabling environment, energy, and private provision of water. She works closely with stakeholders in the US Government, host country governments, and American and foreign companies to promote activities that increase economic growth and job creation. Before joining USAID, Amanda served as a Peace Corp Volunteer in northern Cameroon and lived in Beijing, China. Amanda has a BA in International Relations from Johns Hopkins University and an MBA in International Business from Thunderbird School of Global Management. She is married with two children and still considers herself a newcomer to Colorado Springs.



NGUETI ARMAND GAETAN

President and Foudrer, UBTS

Ngueti Armand Gaetan is an IT Technical Specialist and Architect with certifications in ICT-Education Expert, Microsoft Certified Trainer and international Digital business development Consultant with almost 10 years of experience in the field.

He is a global Specialist on “how to revolutionize businesses inside the industry 4.0”

including expertise in Blockchain, IoT, Big Data , loS, Data Science, Business Intelligence , Cloud computing etc.

Ngueti is also a Digital Strategy & Action Expert helping digital start-up and growth businesses to achieve a rapid and sustained growth from their starting point to a global market. He has held and currently holds roles such as; Teacher, Systems Engineer, Content developer, IT Manager, Consultant, Mentor, Policy Designer and IT Trainer in addition to certifications in CCNA, MCSAx2, CCNP, MCSEx2, MS, MCP, MLSS, MCITP, MCTS, MCT, MCE, and Microsoft Authorized Education Partner.

He has completed the full curriculum of the UNESCO ICT competency Framework for Educators which equipped him with the knowledge to help government and global education organizational units around the world achieve the Education Transformation powered by ICT.

Ngueti is also the Chairman for International Association of Microsoft Certified Trainers IAMCT in Africa. He owns a unique distinction of being appointed the first African Lead at Government Blockchain Association. Blockchain, Bitcoins, distributed ledger technology (DLT) and cryptocurrencies will fundamentally transform how governments interact with its constituents.

Ngueti is the co-founder Universal Broadband & Technology Services - International LLC whose purpose is to provide highly reliable, next generation, secure and fast internet services that will assist businesses, individuals, governments, and non-profit organizations in connecting to the internet. This will enable businesses to promote their brands and increase their global reach and footprint.



KAREN GERWITZ

CEO 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.



MAYOR MICHAEL B. HANCOCK

Mayor of Denver, Colorado

Michael B. Hancock, who became the city's 45th mayor in July 2011 and was re-elected overwhelmingly in May 2015 and 2019, immediately began to transform Denver into a more globally competitive city. With the fifth-busiest airport in the United State

serving more than 54 million passengers per year, Mayor

Hancock is leveraging Denver International Airport (DIA) to make the entire Denver region a major gateway to the world.

Mayor Hancock has secured several new, nonstop international flights, including Tokyo, Mexico City, Reykjavik and now Paris, Munich, Montreal and Panama City, bringing over \$250.4M in economic benefits to the region. These routes are opening new connections between the Rocky Mountain West and Asia, Europe and Central America.

To help the Denver area compete in the global marketplace, Mayor Hancock also is working to create a bustling Airport City and Aerotropolis, which will create more than 30,000 new jobs over the next 20 years. The first phase of these initiatives includes a new 500-room hotel and transit center at the airport, which opened in November 2015, as well as a 20-mile rail line linking Downtown Denver with DIA, which opened on April 22, 2016.

Mayor Hancock has also been named as the first Mayor to serve on the FAA's Management Advisory Council, where he will bring Denver's ingenuity to the table as he works to advance major issues on behalf of DIA, other airports and the aviation industry.

Mayor Hancock worked with regional leaders to secure a new U.S. Patent and Trademark Office in Downtown Denver. The Patent Office will generate nearly \$440 million in economic benefits over the next five years and establish Denver as a hub of innovation in the high-tech and advanced-industry sectors. He also worked to secure the relocation of Panasonic Enterprise Solutions to Denver. The new headquarters, which will be located at a future stop near DIA along the rail line, will anchor the area around the Panasonic site and create global showcase for state-of-the-art sustainable community development.

The Mayor has also developed strategic short- and long-term business plans to support and grow Denver's diverse, intelligent and forward-leaning businesses in emerging industries such as clean energy, bio-technology, telecommunications, aerospace and healthcare. Denver's economy is at the forefront of American cities, offering among the strongest job and housing markets in the U.S.

The Mayor believes there is nothing more important than helping every young person in every neighborhood compete and succeed in the 21st Century economy. He is aligning all City departments with nonprofits, businesses and educational organizations to better prepare all children for every stage of life through new initiatives such as the Denver Children's Cabinet and Denver Education Compact.

As Denver and cities across the country emerge from the recession, Mayor Hancock is committed to creating economic opportunity and eliminating inequities and disparities. Top priorities include reducing homelessness, increasing affordable housing options,

strengthening workforce training partnerships with community colleges, and finding solutions to chronic mental health and substance abuse challenges in the community.

Mayor Hancock has also brought meaningful reform to the Denver Police and Sheriff Departments by establishing new leadership that has reorganized the department to get highly trained officers out of the office and back onto the streets, as well as provide for the well-being, fair treatment and safety of inmates and the men and women serving this community. These steps together strengthen Denver's unparalleled quality of life.

Prior to becoming Mayor, Michael Hancock served on the Denver City Council for eight years, including two as City Council President. In his early career, he worked for the Denver Housing Authority and National Civic League and was the youngest President of an Urban League chapter in America. Mayor Hancock is married to musician and performer Mary Louise Lee, and is the proud father of three children: Alayna, Jordan and Janae.



STATE REP. DOMINIQUE JACKSON

House District 42, Aurora, Colorado

State Representative Dominique Jackson was elected to represent House District 42 in Aurora, Colorado in November of 2016.

Representative Jackson currently serves as Chair of the Energy & Environment Committee. She is also a member of the Health & Health Insurance Committee and the Legislative Council Committee. She has also been appointed to serve on the Executive Committee of "The Energy Council," and to her third term on the Colorado Workforce Development Council.

Representative Jackson has an extensive history of serving communities in both Aurora and Denver. She has served as a commissioner on Aurora's "Community Housing & Development" Commission, Denver's "Commission on Homelessness" and the "Sustainability Advisory Council." She also served on the Curriculum Advisory Council for the Department of Technical Communications, Journalism & Digital Media at Metropolitan State University

Representative Jackson earned a B.A. In Communications from Denver's Metropolitan State University, an M.A. in International & Intercultural Communications from the University of Denver and a certificate in Sustainability Management from the University of Colorado, Boulder. She was also selected to participate in both "Leadership Denver" and "Leadership Aurora."

Professionally, she spent two decades working on-air as a television news journalist, primarily in Texas and California.

She is married to Wade Hansen. They love & adore their dogs Tug and Tank (who have more Facebook friends than any puppies should be allowed.)



TIM JONES

Client Manager and Analyst, Innosphere and ICI Fund

Tim Jones, works as a client manager at Innosphere and analyst with the ICI Fund. Additionally, he is active as an investor and mentor in the Colorado venture startup ecosystem. Previously he held a variety of positions in project management, mergers and acquisitions and quality at General Electric in the Energy and Oil & Gas divisions. He started his career in the US Navy as a submarine officer. Tim holds a BS in Mechanical Engineering from the University of Rochester, MS in Mechanical Engineering from Rensselaer Polytechnic Institute and an MBA from the Graduate School of Business at the University of Rochester.



RICHARD LACKEY

CEO and Chairman, World Food Bank

Richard Lackey is a serial entrepreneur with a unique background that includes several years in emergency medical response and medical missions as well as almost three decades as an active trader and fund manager. He has appeared as an expert in the field in magazines, and on radio and television.

Richard has held eight different securities licenses spanning equity, options and futures markets. Richard has served as the Managing Director for five private funds. His expertise in emergency response management as well as the inefficiencies of markets led him along with a world-class team of experts to create the World Food Bank. The World Food Bank is responsible for establishing the world's most valuable commodities as the world's newest and potentially safest asset class. Richard is also passionate about utilizing the World Food Bank as a solution for the inefficiencies that exist between small farmers and regional and global markets.

Richard has authored three books on technical analysis and investment management and is a co-developer of the market prediction software, PTI. In addition to leading the World Food Bank, he regularly consults for startup companies needing innovative solutions, marketing direction, or board leadership. He holds dual undergraduate degrees in Marketing and Management from the University of Georgia, and did graduate studies in Hotel Finance and Management at Cornell University.



LISA LARSON

Vice President, HDR International

Ms. Larson is a consultant with 24 years of experience in the power industry. As a Vice President at HDR, she leads HDR's international power pursuits and is an advisor to HDR's Strategic Consulting Practice. She has experience and background

in Sub-Saharan Africa and has participated in the advancement of the Nacala Solar and Storage project in Mozambique. Ms. Larson has significant technical and project management experience associated with power and water projects. She has extensive experience working with stakeholders to develop practical solutions that meet the needs of multiple interests. Ms. Larson has been involved in a variety of industry organizations and activities, including presenting applied research results at meetings and national conferences and serving on boards including for the Northwest Hydroelectric Association and the Hydropower Foundation. She has a Master's degree in Civil Engineering from Oregon State University and holds a Wharton Executive Management CPD in Strategy and Leadership.



CARL LEDBETTER

Managing Partner, Pelion Ventures Partners

Dr. Carl Ledbetter is 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!!!



LANA LENNBERG

Senior International Trade Specialist, US Department of Commerce

Lana Lennberg is a Senior International Trade Specialist with the US Department of Commerce/US Commercial Service (USCS) and has been assigned to the US Export Assistance Center (EAC) in Denver, Colorado since 1998. The EAC combines the efforts of

the US Department of Commerce, the Small Business Administration, Export-Import Bank, and other partner organizations to assist exporters in marketing and financing their products and services internationally. The industry sectors Lana covers include oil/gas/energy, environmental technologies, architecture, construction/building products, engineering, services exports, electronics, education and franchise services. She also served as the global Environmental Technologies Team Leader in 2004.

Prior to this appointment, Lana served on active duty in the US Army during Desert Storm and was stationed at Fort Lewis, Washington and Seoul, Korea.

Lana worked in both profit and non-profit organizations and completed an internship through the Colorado International Trade Office under the Office of Governor Roy Romer just before beginning work with the EAC. Ms. Lennberg also has worked in the commercial sections of the US Embassies in both Brussels, Belgium and Lima, Peru.

Lana is originally from Salt Lake City, Utah and has lived and worked in Denver since 1995. She holds a B.S. in Business Management from Metropolitan State College of Denver and an M.S. in International Business from the University of Colorado at Denver.



HUNTER LOVINS

President and Founder, Natural Capitalism Solutions

L. Hunter Lovins is the President and Founder of Natural Capitalism Solutions (NCS), a non-profit formed in 2002 in Longmont, CO. A renowned author and champion of sustainable development for over 35 years, Hunter has consulted on

business, economic development, sustainable agriculture, energy, water, security, and climate policies for scores of governments, communities, and companies worldwide. Within the United States, she has consulted for heads of state, departments of defense, energy agencies and hundreds of state and local agencies.

Hunter believes that citizens, communities and companies, working together within the market context, are the most dynamic problem-solving force on the planet. She has devoted herself to building teams that can create and implement practical and affordable solutions to the problems facing us in creating a sustainable future.

Hunter has co-authored fifteen books and hundreds of articles, and was featured in the award-winning film, *Lovins On the Soft Path*. Her best-known book, *Natural Capitalism*, Won the Shingo Prize. It has been translated into a more than three dozen languages and summarized in *Harvard Business Review*. Its sequel, *The Way Out: Kickstarting Capitalism To Save Our Economic Ass*, won the Atlas Award. Her book, *Creating a Lean and Green Business System* again won the Shingo Prize. Her latest book, *A Finer Future* won the Silver Nautilus Award.

Hunter has taught at numerous universities around the world. Currently a founding professor of Sustainable Management at Bard MBA, she was named a Master at the Chinese De Tao Academy, where she helped launch the Institute for Green Investment in Shanghai. She is a Fellow of the Fowler Center for Business as an Agent of World Benefit at Case Western University

Lovins has consulted for scores of industries and governments worldwide, including International Finance Corporation, Unilever, Walmart, the United Nations and Royal Dutch Shell, as well as such sustainability champions as Interface, Patagonia and Clif Bar.

Hunter lectures regularly to audiences around the globe and has briefed senior officials in more than 30 countries. She has worked in economic development from Afghanistan to New Zealand and served the King of Bhutan on his International Expert Working Group, charged with reinventing the global economy. She serves on the Executive Committee of the Club of Rome, the steering committee of the Alliance for Sustainability And Prosperity, and Capital Institute's Advisory Board. A founding mentor of the Unreasonable Institute, Hunter teaches entrepreneurship and coaches social enterprises around the world. She is also a founding partner in Change Finance, an impact-investing firm. Hunter has won dozens of awards from the Right Livelihood Award (Alternative Nobel), Leadership in Business, The Rachel Carson Award, and the European Sustainability Pioneer award. Time Magazine recognized her as a Millennium Hero for the Planet, and Newsweek called her the Green Business Icon.



CONSTANCE MOONZWE

Executive Director and CEO, ITH Staffing

Constance is a serial Entrepreneur. Today as the Executive Director and CEO of ITH Staffing, Inc., a premier healthcare and information technology staffing company serving organizations across the country, Moonzwe leads all operations, strategic planning and staff development for this high-volume firm in Rancho Cucamonga, California. With 20-plus years of experience she has managed large portfolios and successfully delivered professionals to companies in hospitality, engineering and health risk management. Moonzwe's broad experience in business consultancy and leadership has made her an expert in her field. As a member of the Society for Human Resource Management, she continues to be recognized by industry peers, colleagues and employees as a trail blazer, role model and mentor. Putting equal time into her community work, Moonzwe is the Vice President of ITH Charities, an organization she founded to promote sustainable healthcare and educational development initiatives, primarily in her native Zambia.

The accolades which follow Moonzwe's important work are just as impressive: Women of Color Achievement Award, Favorite Healthcare Staffing (selected by The Joint Commission's Gold Seal of Approval), Certified Women's Business Enterprise, and other honors for this entrepreneurial champion. A graduate from California Polytechnic University (Cal-Poly Pomona), and the University of La Verne (ULV); she received a BS in Human Resources and a master's in healthcare administration.



JULIUS MWALE

Principal, Mwale Medical and Technology City

Mr. Julius Mwale is a successful industrial entrepreneur and investor with more than 20 years of proven track record in innovative investments in Technology, Energy, Health, retail and construction industries.

Mr. Mwale is currently the principal of the US \$ 2 billion Mwale Medical and Technology City (MMTC) based in Western Kenya where he was the lead investor. The City is built on 100% green concept and started construction in 2014 with 80% complete as of August 2019 and expected to be fully completed by December 2020.

Prior to that in early 2000s, Mr. Mwale Founded and was the Chairman and President of SBA Technologies Inc. A New York based biometric company that pioneered string based biometric security technology that revolutionized the biometric industry worldwide.

Mr. Mwale's education background is in Telecommunications engineering and sits on the boards mostly as chairman of more than 10 companies in Technology, retail, pharmaceutical, Health, Construction, Hospitality, Human Resources, Energy and Engineering industries.

Since 2007, Mr. Mwale has been the Chairman of the American Institute for African Development based in New York which works to promote good governance, universal healthcare and education access in 54 countries in Africa. It further promotes sustainable development in both rural and urban communities around the continent. Mr. Mwale is married to Kaila and they are blessed with three boys and two girls.



VED NANDA

Professor Emeritus, Sturm College of Law, University of Denver

Professor Ved Nanda taught at the University of Denver since 1965. At the University of Denver Sturm College of Law, he held the distinctions of John Evans Distinguished University Professor and Thompson G. Marsh Professor of Law and is the Founding

Director and Director Emeritus of the International Legal Studies Program. In 1971, Professor Nanda founded the Denver Journal of International Law and Policy, one of the first international and Comparative Law, launched in his name in 2006 through a generous founding gift from DU Law alumni and friends, Doug and Mary Scrivner. Other alumni have since established the Ved Nanda Professorship in International Law in his honor.

Professor Nanda has been significantly involved in the global international law community throughout this career. He is past President and the World Jurist Association and now its Honorary President, former Vice President and counselor of the American Society of International Law, and a member of the advisory council of the United States Institute

of Human Rights. He was formerly the United States Delegate and Vice-Chair of the Executive Council of the World Federation of the United Nations Associations in Geneva and served on the Board of Directors of the United Nations Association-USA. He also serves as an elected member of the American Law Institute, is on the executive board of the American Bar Association Human Rights Center and is a council member of the American Bar Association of International Law. Professor Nanda has been a Distinguished Visiting Professor and Scholar at numerous universities in the United States and abroad.

Professor Nanda has been honored with numerous international and national awards, including the 2018 Louis B. Sohn Award for Public International Law from the ABA Section of International Law, the Gandhi, King, Ikeda Award for Community Peace Building from Soka Gakkai International and Morehouse College, the World Jurist Association World Legal Scholar award, the United Nations Association Human Rights Award, and the Hiroshima Peace Award. Professor Nanda was honored in 2017 in the U.S. House of Representatives.

Professor Nanda earned a B.A. and M.A. from Punjab University in India and earned his L.L.B and L.L.M from Delhi University in India, where he graduated first in his class. He went on to earn another L.L.M from Northwestern Law School in Chicago and was a Graduate Fellow at Yale Law School in New Haven. He has also received honorary doctorates from Soka University in Tokyo, Japan and from Bundelkhand University, Jhansi, India.

Professor Nanda has authored or co-authored 25 books in the various fields of international law, over 225 chapters and major law review articles, is a regular columnist for the Denver Post, and is a frequent contributor in print and electronic media internationally.



JASON NAGY

Founder, 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!



LEWIS NCUBE

Founder and CEO, Synergy Ventures International Limited

Lewis earned a Bachelor of Science Degree in Chemical Engineering from the University of Manchester in the United Kingdom and received postgraduate qualifications in the petroleum and energy sectors from IAFE ENI Castel Gandolfo in Rome, Italy and the College of Petroleum and Energy Studies in London, United Kingdom.

After graduating as a Chemical Engineer, Lewis started his working life as a Process Engineer in the Zambia Consolidated Copper Mines Limited; the leading copper mining company in Zambia at the time, then jointly owned by the Zambian Government and Anglo-American Corporation.

Rising to head the Solvent Extraction Unit of the major division of company's operations, he was instrumental in making chess development one of the priority areas of the firm's Corporate Social Responsibility areas under the Community Services Department.

Lewis later joined Agip Zambia Limited, the Zambian subsidiary of the international oil marketing company Agip Petroli; the Refining and Marketing Division of the Italian energy conglomerate, ENI.

Rising from the position of Lubricants Engineer to heading the Marketing and Distribution Department of the Company, Lewis eventually ended up as a Consultant at the company's Head Office.

Lewis has over 25 years' experience in technical, commercial and administrative competence in the petroleum and energy sectors at senior executive level.

After serving out his second four-year term as Vice President of the World Chess Federation (FIDE), Lewis was elected as President of the African Chess Confederation in 2014 at elections held during the General Assembly of the World Chess Federation convened on the sidelines of the 41st World Chess Olympiad hosted in the Norwegian town of Tromsø.

On October 4, 2018 Lewis was re-elected for his second term as President of the African Chess Confederation during the 89th Congress of the World Chess Federation held in Batumi, Georgia.

Lewis currently combines his chess organizing responsibilities with running his own energy consulting firm and is Team Leader of the renewable energy start-up company, Synergy Ventures International Limited.



BRENT NELSON

Group Manager, National Renewable Energy Laboratories

Brent Nelson has worked at the National Renewable Energy Laboratory for over 30 years, spending most of his career studying thin-film solar cells primarily hydrogenated amorphous silicon and its alloys. He has expertise in safety practices in working with hazardous production materials. He has authored and coauthored over 90 scientific publications and has more than 500 citations for research in addition to giving dozens of scientific talks on multiple continents. He currently manages a group of data and research equipment specialists who support technologies ranging from photovoltaics to nanoparticle generation to fuel cells to batteries to other energy-related material systems. He has extensive budgeting and project management experience for NREL and several non-profit organizations.



HONORABLE MATTHEW NKHUWA

Minister of Energy, Republic of Zambia

Honorable Matthew Nkhuwa was appointed Minister of Energy by President Edgar Lungu of the Republic of Zambia. Prior to his becoming Minister of Energy, he served as Minister of Works and Supply.

Honorable Matthew Nkhuwa is also a Member of Parliament for Chingola on the Copperbelt. In that capacity he has served on various parliamentary committees including the committee on legal affairs, Human Rights, National Guidance, Gender and Governance.



DAVID K. OWENS

Retired Executive Vice President, Edison Electric Institute, president of Da'Vas LLC

David K. Owens is an accomplished executive with extensive experience in public policies surrounding utility operations, strategic planning, technology development, rate making and regulation.

He is recognized as one of the foremost authorities on electric utility issues, industry restructuring and transformation. His experience in the electricity sector includes leading the Edison Electric Institute's (EEI's) efforts over a broad set of issues that affect the future structure of the electric industry, and new rules in evolving competitive markets.

He was responsible over the strategic areas of energy supply and finance, environment, energy delivery, energy services, state regulatory issues, and international affairs. He also spearheaded efforts to enhance the public policy climate for investments in America's electric infrastructure with emphasis on the role of new electrification technologies to address climate change, and to enhance energy efficiency through smart buildings, smart appliances, smart meters, and smart electric grids.

Mr. Owens retired from EEL in June 2017 with four decades of utility experience. He remains an advisor to EEL and serves on the Board of Xcel Energy. He also chairs the Transformation Advisory Council providing insights in the new design of the Puerto Rico electric systems.



ROCIO PEREZ

Principal, Inventiva Consulting LLC

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).



KJELL PERSSON

Vice President, CityNOW, Panasonic

Kjell is the Vice President of CityNOW, the Applied Innovation & Connected Business Design division within Panasonic focusing on Energy and Mobility – the bedrock of Smart City sustainability and resiliency.

Kjell is currently helping Denver become a smarter and more sustainable city through creating sustainable digital solutions and services. Prior to joining Panasonic, Kjell was the

CEO of InUse, and as Senior Smart City Advisor on behalf of Panasonic, to the Smart City Pillar Process engagement in Colorado Springs.



LUKA POWANGA

Professor, Regis University, Anderson College of Business, Denver, USA

Dr. Luka Powanga is a professor of Business and Economics in the Anderson College of Business at Regis University. He is the co-founder of the Energy Africa Conference (<http://energyafricaconference.com>) to help Africa meet its Energy Demand. He is also the founding member of the Denver Chapter of the Angel capital Group (<https://theangelcapitalgroup.com>) in addition to the Powanga Group (<http://thepowangagroup.com>), focused on connecting US investors to Projects in Africa. He is also, the cofounder of the Africa Healthcare Group focused on improving the quality and access to healthcare in Africa. He worked in the mining and telecommunications industry at local and international levels. He taught at Colorado School of Mines before transitioning to Regis University. He consults in economic development, mining, energy, international business management, healthcare and education. He has spoken at many business forums.

Dr. Powanga, 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 USA, with a minor in Finance from Denver University. He also holds a Masters degree in Computer Information Technology (MSCIT) and Graduate Certificate in Object Oriented Programming from Regis University.



TIM REBER

Project Lead for International Programs, National Renewable Laboratories (NREL)

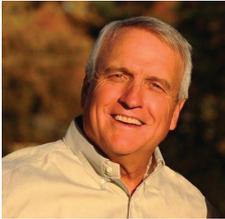
Tim Reber is a Project Lead for International Programs at the U.S. National Renewable Energy Laboratory. He manages a portfolio of collaborative initiatives working with global stakeholders to accelerate deployment of renewable energy and increase access to reliable, clean and affordable electricity around the world, with a primary focus in sub-Saharan Africa.

His responsibilities include leadership of the 21st Century Power Partnership initiative in South Africa, supporting minigrid deployment through technical and policy assistance in collaboration with Power Africa, and implementation of Low Emission Development Strategies (LEDS) across a range of projects and African countries. In addition to his work in Africa, Tim also leads the Sustainable Energy for Remote Indonesian Grids program, with the aim to increase deployment of clean energy in small, remote grids across Indonesia.

Prior to joining NREL, Tim worked as a community energy consultant in Karnataka, India, where he developed and managed an awareness-building campaign to promote micro-

finance initiatives and encourage adoption of small-scale clean energy technologies.

Tim earned his Master's degree in sustainable energy and earth science from Cornell University.



BILL RITTER

Founder, Center for New Economy, Colorado State University

Former Colorado Governor

Former Bill Ritter was elected Colorado's 41st governor in 2006 and was the District Attorney of Denver from 1993-2005. During his four-year term as Governor, Ritter established Colorado as a national and international leader in clean energy by building a New Energy Economy. After leaving the Governor's Office, Ritter founded the Center for the New Energy Economy at Colorado State University, which works with state and federal policy makers to create clean energy policy throughout the country. Former Governor Ritter has authored a book that was recently published entitled, *Powering Forward – What Everyone Should Know About America's Energy Revolution*.



MARK D. SAFTY

Wirth Chair in Sustainable Development

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.



S. GABRIEL SHUMBA

Founder & Managing Partner, Group Shumba

S. Gabriel Shumba (Gabriel) is an investor, author, fund manager and structured finance expert. He also advises asset management firms, and governments on venture development, capital raising, and portfolio De-Risking solutions using

structured finance strategies. Gabriel has experience at management and board levels at Group Shumba, D&R Investments, KPMG, PwC, and advisory roles at Goldman Sachs, Fortress Investment Group and Barclays Bank. He has over 19 years of experience in private equity fund administration, structured finance, risk management, investment structuring, and wealth management strategies across 3 continents. Gabriel's core investment experience has mostly focused on real estate, financial services, insurance, mining, and agriculture value chains within South America, Africa and North America through positions in fund advisory and investment committees for continental private funds within the mid and small-cap sectors. He served listed companies, private funds, insurance and international banking clients in the United States of America, Latin America, and Southern Africa, in various roles in fund management, structured finance, risk management, Infrastructure investment and economic advisory. His key clientele included, Goldman Sachs private equity and Fortress Investments Group private equity and hedge funds. Over a period of 5 years at Goldman Sachs, Gabriel had custody of over 40 funds in real estate, and equities sectors with assets under management exceeding \$21 Billion in aggregate; Fortress Investments Group, a global investment manager with over \$19 Billion in assets under management. Recently, Gabriel was appointed to the African Union's Diaspora Initiative Investment Committee (ADHI), where he is engaged in reviewing and structuring investment programs for the African Diaspora. He is the founder and Managing Partner of Group Shumba; a Delaware based private equity and capital advisory firm with interests in Emerging Markets and North America. Group Shumba is an investor in gold mining ventures in Colombia,

and Zimbabwe with estimated asset valuation of \$78 Million; Real Estate ventures in the USA, and in South Africa valued at \$28 Million in aggregate. He is also heavily involved in developing financial solutions for the grassroots, and aiding governments on implementing economic development programs driven by the financial independence of marginalized communities. His financial solutions company (Waterhole) has developed two platforms

for helping the grassroots become financially independent through experiential training, coaching, and mentorship.

An inspirational leader, he speaks on various international, community and church platforms about frontier investing, economic stimulation, fund creation and collective impact to bring about personal financial inclusiveness. Gabriel is the author of the popular

book, "The Waterhole Millionaire", a story that inspires individuals, churches, communities and governments on how to build wealth and lasting financial solutions for the grassroots. He believes in the power that entrepreneurship and personal investing have in changing the lives of people, especially in marginalized communities.



PURNIMA VORIA

Founder and CEO, US-India Chamber of Commerce

Purnima Voria is the Founder and CEO of the National US India Chamber of Commerce (NUICC), an international organization that promotes bilateral trade between United States and India through business relationships. NUICC is recognized as one of

the top international business organizations where members meet with visionary business and government leaders from the United States and India to help their companies

better compete in the new, dynamic global economy with enhanced trade relations.

The membership of NUICC spans across a wide spectrum of industries, with direct membership strength of approximately 9,200 people worldwide.

An international business advocate, Ms. Voria is a business owner, educator, motivational speaker and a U.S. India expert. She consults with small and large businesses to help them market and source their products in India; qualifies local partners; provides a road map for businesses that are entering the Indian marketplace; provides legal, taxation and regulatory consultation; and offers in-company training workshops.

Ms. Voria's direct bilateral trade efforts between the U.S. and India have resulted in increased exports of U.S. products into India, increased manufacturing opportunities for U.S. companies in India, and joint venture opportunities between the two nations. She has also assisted major U.S. corporations by providing her expertise in managing business operations in India and has trained several companies about business cultural norms before they embarked into India to set up their businesses. Ms. Voria has worked extensively on Corporate Social Responsibility fundraising-related initiatives.

In 2004, Ms. Voria was appointed by the US Secretary of Commerce Gary Locke as a National Advisor to the Minority Business Development Agency to drive growth and policy-making for 5.8 million minority businesses in the US, which attributes to a trillion dollar economy. She also served US Commerce Secretaries John Bryson, Rebecca Blank, and Penny Pritzker under President George W. Bush and President Barack Obama's administration from 2004-2014. In 2017, Ms. Voria was invited by the US State Department to join Ivanka Trump at the Global Entrepreneurship Summit in Hyderabad, India.

Ms. Voria has served on President George W. Bush's 2005 Presidential Commission and was a member of his 2006 Presidential Business Club, providing valuable business policy and trade expertise. That same year, she was awarded a Congressional Medal of Distinction for her outstanding leadership in business and her contributions to the United States economy. In 2005, The Wall Street Journal honored Ms. Voria as a Business Woman of the Year. She was also the Honorary Chairman for the National Republican Congressional Business Advisory Council and received the 2005 Ronald

Regan Republican Gold Medal for her acumen as a local business leader. Adding to her stellar community service record, Ms. Voria serves as an Ambassador for Peace and is a contributing member to the United Nations Association of the United States of America. She is listed in Who's Who in Executives and Professionals.

In Colorado, where the National US India Chamber of Commerce is headquartered, Ms. Voria was selected to serve on both Governor Owens' and Denver Mayor Hickenlooper's Asian Advisory Councils. She is also the President of India Association of Colorado.

An internationally recognized speaker, Ms. Voria served as Opening Speaker for the 2018 Commonwealth Games in Gold Coast, Australia on Trade and Investments. She has been featured on BBC World News London as a commentator on climate change and the role of various nations' stances on the issue. She also participated in Voice of America TV and Radio's thought-provoking discussion entitled Global Women's Empowerment. Furthermore, she was featured on India Today, a leading magazine, and spoke on the importance of Non Resident Indian's role in contributing to the rise of India as an economic superpower, as well as The Times Of India, India Abroad, The Denver Post, The Denver Business Journal and the Colorado Today Television show. Ms. Voria travels frequently between the U.S. and India, promoting businesses and consulting for corporations and industry trade associations. She has also travelled globally to China, Israel, New Zealand, and other countries as keynote speaker for Global CEO business conferences



BEN WALKER

Executive Director, Artificial Intelligence and Life Sciences, Innosphere

Ben is the Executive Director of the Life Sciences program at the Innosphere. The Innosphere is an entrepreneurial incubator with offices in Fort Collins, Boulder, and Denver and focuses on serving both startup and scaleup companies. Ben spent 28

years with Hewlett-Packard as a Director level Marketing Manager for multiple product lines and worked for HP Corporate in the Mergers and Acquisitions office. Ben has a passion for commercialization



TERRY WILLIAMS

Chairman and CEO, GlobalTrust Funds

Terry is the chairman and chief Executive Officer of the GlobalTrust Funds. Prior to starting GlobalTrust Funds, Terry was with JCE Capital Management, L.P. which operates globally as a privately held hedge fund and advisory company. Their

investment focused on Blockchain Technology, Cryptocurrencies, Machine Learning and Artificial Intelligence.

The company offers alternative asset advisory services, capital market investments through its access to global capital market exchanges in the USA, Asia/Pacific, Europe and the Middle East.

JCE Capital Management, LP clients include qualified investors, hedge funds, family offices, sovereign wealth Funds, and institutional investors. JCE Capital Management, L.P. serves accredited investors worldwide.

As a Social Sector Leader, Mr Williams has extensive executive level experience in 1) Investment Management 2) Information Technologies 3) Global Trade and Development, and 4) Structured Finance Transactions. His current responsibilities as the Managing Partner, include registering the global hedge fund in the United States Latin America, Cayman Islands, Europe, Switzerland, Asia, Pacific, Hong Kong, Middle East, Africa and Dubai.



BRYAN WILLSON

Executive Director, Energy Institute, Colorado State University

Dr. Bryan Willson is Executive Director of the Energy Institute at Colorado State University, and he holds the Bryan Willson Presidential Chair of Energy Innovation. He also serves as a Professor of Mechanical Engineering. Dr. Willson served as a

Program Director at ARPA-E (Advanced Research Projects Agency – Energy), from 2012-2016 and continues to serve as a consultant / advisor to the agency.

As an entrepreneur, Dr. Willson is co-founder of: Envirofit International, a global company that has developed solutions for clean mobility (direct injection retrofits for 2-stroke cycle engines) and is now manufacturing and distributing clean cookstoves in the developing world; Solix BioSystems, a developer of large-scale production systems for algae-based fuels and specialty chemicals; and Factor(e) Ventures, a venture development firm supporting early stage ventures working on access to energy in the developing world; and Mesh/Xpower.

His research laboratory, the Engines & Energy Conversion Laboratory, has made important contributions in many areas, including: internal combustion engines, oil & gas production technology, advanced electrical grids, advanced biofuels, technology for the developing world, and advanced building technologies. Dr. Willson has worked in over 40 countries.



DANIEL ZIMMERLE

Senior Research Associate, Colorado State University

Daniel Zimmerle is a Senior Research Associate in the Energy Institute at Colorado State. He leads research in remote community microgrids, including projects with Mesh Power Rwanda, the integration of renewables into distribution systems and associated power research. He also does extensive work on greenhouse gas

emissions from natural gas.

Dan is an 'accidental academic' who has worked over 20 years in industry, including experience as both a division general manager and R&D manager in a wide variety of organizations, many of which had international operations.

He holds a BSME and MSME from North Dakota State University.

CONFERENCE COMMITTEE

CONFERENCE CHAIRMAN:

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

CONFERENCE VICE CHAIRMAN:

- Luka Powanga, Professor, Anderson College of Business and Founder, Energy Africa Conference

PROGRAM COMMITTEE MEMBERS:

- Mark Safty, Chair Wirth Chair in Sustainable Development, School of Public Affairs, University of Colorado Denver
- Paul Ndione, Research Scientist, Renewable Laboratories, NREL, Ambassador Irene-Giner-Reichl, President, Global Forum on Sustainable Energy and Austrian Ambassador to Brazil
- Philip Mshelbila, CEO, Atlantic LNG
- James Chisenga, Consellor- Economic, the Embassy of Zambia
- David Owens, Executive Vice President (Retired), Edison Electric Institute
- Robert Stoner, Deputy Director, Massachusetts Institute of Technology (MIT) Energy Initiative
- Luka Powanga, Professor, Anderson College of Business and Founder, Energy Africa Conference
- Azra Tutuncu (in Memoriam), Harry D. Campbell Chair, Professor & Director of Unconventional Natural Gas and Oil Institute at Mines Golden, Colorado Higher Education
- Papa Dia, Founder and President, African Leadership Group

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 Consulting
- Yiyang Li, Graduate Student, Anderson College of Business, Regis University

LOGISTICS:

- Michael Allender, Project Manager, HP (retired)
- Alice Aragon, Administrative Staff, Anderson College of Business, Regis University

- Sarah Adams, Graduate Marketing Assistant, Anderson College of Business, Regis University

MISTRESS OF CEREMONY:

- Rocio Perez, Principal, Inventiva Consulting

EVENT PLANNER:

- Lori Collier, Lori Collier Events
- Briana Rorex, Lori Collier Events

PROGRAM DESIGNER:

- Yiyang Li, Graduate Student, Anderson College of Business, Regis University

MEDIA PARTNERS



SUPPORTING PARTNERS



ANDERSON
College of Business
REGIS UNIVERSITY



AMERICAN
SOLAR
ENERGY SOCIETY



DENVER
THE MILE HIGH CITY

SPONSORS

JIM & MARY DONOVAN



ANDERSON

College of Business

REGIS UNIVERSITY

Mark Safty



2019 HONOREES



ROCIO PEREZ

Principal, Inventiva Consulting LLC



MICHAEL FARINA

Executive Leader-Strategy and Growth, Integrated Gas and Power Solutions



MARK D. SAFTY

Wirth Chair in Sustainable Development at the University of Colorado



PAUL BERGMAN

Director of the U.S. Export Assistance Center in Denver

SPECIAL AWARD

For Leadership in Energy



HON. MATTHEW NKHUWA
Minister of Energy, Zambia

IN MEMORIAM

AZRA N. TUTUNCU

Professor, Harry D. Campbell Chair, Petroleum
Engineering Director, Unconventional Natural Gas
and Oil Institute



Dr. Tutuncu was a member of the Organizing Committee for the Energy Africa Conference from 2011 to 2019. Professionally, 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. Dr. Tutuncu had over two hundred publications in peer reviewed journals and conference proceedings in addition to over one hundred 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 held several patents on pore pressure prediction, attenuation and acoustic stimulation. Dr. Tutuncu was 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 served in the ARMA Executive Board (2006-2013) and as a member of the EPA Scientific Advisory Board on Hydraulic Fracturing Research (2013 -2016), and was a Former President of American Rock Mechanics Association (2009-2011). She was a licensed Professional Petroleum Engineer in the State of Texas and in the State of Colorado and Licensed Professional Geoscientist in the State of Texas. Dr. Tutuncu held a B.S from Istanbul Technical University, a MS from Stanford University and M.S from University of Texas and Ph.D from University of Texas.

NOTES

NOTES