

JACKSON HOLE CENTER FOR GLOBAL AFFAIRS



The Jackson Hole Center for Global Affairs empowers leaders and communities to understand and address global forces of change in business, society, and the environment.











JACKSON HOLE
CENTER FOR GLOBAL AFFAIRS

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June 2018

To the friends and supporters of the Jackson Hole Center for Global Affairs:

Our organization defines itself by its mission statement, and what it does. That is why, in its 16th year, the Jackson Hole Center for Global Affairs has changed its mission statement to that which appears on the adjacent page. As we seek to build on the core competencies we have demonstrated in our work on climate change, we realize that one of our strengths is our capacity to mobilize and empower leaders to act. I would like to take the opportunity of this biennial report to illustrate with several examples, each referring to the JHCGA website for further information.

After one of JHCGA's initial clean energy exchanges with China's Shanxi province, a senior provincial government official returned to his province to share the concept of "carbon capture and storage" (CCS) that he had learned in the exchanges with his U.S. government counterparts and other U.S. energy experts. (https://www.jhcga.org/october-2004). Shortly thereafter, this official was appointed to set up the first Climate Change Office within the Shanxi provincial government to implement the concept he had learned in the Jackson Hole meeting. He was subsequently selected to be director of the office.

A few years later, a bipartisan JHCGA delegation of Wyoming leaders in the House of Representatives visited Shanxi and two other provinces in China for discussions and site visits relating to CCS (https://www.jhcga.org/june2014). These leaders returned from this visit and met with their Wyoming constituents to share what they had seen for themselves and dispel the myth that China has not been addressing the challenge of CO2 mitigation.

The following year, JHCGA brought the governors of Wyoming and Shanxi province together for a meeting in Cheyenne to discuss for a first time the technical and environmental challenges both jurisdictions faced as the largest coal-producing entities in the U.S. and China (https://www.jhcga.org/june-2015).

In 2017 we organized the Wyoming Wind Coalition, a group of over 20 companies and economic development organizations that have become the state's leading vehicle to promote wind's economic diversification role. (pp. 8-9). In 2017, in cooperation with the Riverwind Foundation, JHCGA engaged leaders in the national park system and the Jackson community on strategies for sustainable tourism management in Jackson Hole. The meetings resulted in an interim report for a proposed sustainable destination management plan (pp. 6-7). In the year to come, we will convene a global forum in Jackson Hole of leaders from around the world to examine the experience of other countries and regions in diversifying their economies and their energy systems beyond coal (jhcga.org/globalforum).

Meanwhile, the Global Business Roundtable (https://www.jhcga.org/global-business-roundtable) JHCGA's luncheon membership program with nearly 50 members, has established itself as a leading venue in the community for global speakers and experts in business, security, society, energy and the environment.

As reflected in this biennial report, the dimensions of global climate change are too urgent for anything less than an "all hands on deck" response. The Jackson Hole Center for Global Affairs is resolute in its mission to inform and empower policy makers and leaders to meet this challenge as old energy technologies phase out and new ones come on line.

The challenge of global climate change is too urgent for anything less than an "all hands on deck" response.

Sincerely,

David Wendt President

David wendt



JHCGA Broadens Cooperation with China on Clean Energy

In 2016 JHCGA broadened the agenda of cooperation on energy issues that have brought Wyoming together with China's Shanxi province as the two largest

coal-producing states/provinces in their respective countries. With combined annual coal production of almost 20% of the world's total, Shanxi (900 million tons) and Wyoming (350 million tons) face many environmental challenges.

At the invitation of the Shanxi provincial government to attend its annual Low-Carbon Development Forum in September 2016, JHCGA organized a delegation of energy experts. Members of the delegation explored cooperation in wind energy and carbon recycling with representatives of two of the province's largest State-Owned Enterprises, including a vertically integrated coal company and a heavy machinery manufacturing company.

Before the 2016 delegation departed from Wyoming, Governor Mead's office requested that JHCGA focus on opportunities for direct foreign investment by Chinese companies to locate wind turbine manufacturing facilities in Wyoming. This discussion provided the impetus that has now become the Wyoming Wind Coalition.

Carbon recycling efforts in Wyoming were also on the agenda of the 2016 visit. JHCGA met with senior technology managers of one of China's largest coal companies to explore their interest

The Shanxi provincial government has donated office space in the "innovation city" in the capital city of Taiyuan for future use by JHCGA as a platform for cooperation.

in participating on joint efforts to develop new uses for carbon dioxide. These efforts are based at the new Integrated Test Center in Gillette, Wyoming, where the State has created a competition that utilizes carbon for commercial end purposes.

Highlighting the visit was a presentation at the Forum of an innovative energy conservation program developed by the

community of Jackson Hole. Phil Cameron, Executive Director of Energy Conservation Works, shared Jackson's expertise and experience with an audience of over 200 government officials and technical experts from municipalities from around the world.

Members of the delegation also visited the centuries-old Chinese Buddhist pilgrimage destination of Wutai Shan, where they met with officials of that World Heritage Site to explore opportunities for cooperation on cultural and natural resource conservation. Like the wind power discussions, these meetings provided the basis for new sustainability initiatives. (see p.6).

Members of the 2016 delegation included Phil Cameron; Don Collins, Director of the Western Research Institute and a member of the Wyoming Infrastructure Authority; JHCGA Director of Communications Olivia Meigs; JHCGA President David Wendt; JHCGA Vice President Nathan Wendt; Robert Youngberg, President, Sustainable Development International; and History Professor J. William T. Youngs of Eastern Washington University, an expert on the history of U.S. national parks.

With special appreciation to our Chinese partners we recognize the unique and productive opportunities for problem solving that have come out of this international synergy.

Above: Members of JHCGA delegation to Taiyuan Low Carbon Development Forum, September 2016 (1 to r) J. William T. Youngs, Professor of History, Eastern Washington University; Phil Cameron, Executive Director, Energy Conservation Works; Sun Tao, staff member, Shanxi Foreign Affairs Office; JHCGA President David Wendt; JHCGA Director of Communications Olivia Meigs; Mao Yujie, staff member, Shanxi Foreign Affairs Office; JHCGA Vice President Nathan Wendt; Don Collins, CEO, Western Research Institute; Robert Youngberg, President, Sustainable Development International.





Phil Cameron,
Executive Director of
Energy Conservation
Works presents results
of Jackson Hole's
project on energy
conservation at plenary
meeting of Taiyuan Low
Carbon Development
Forum, September



JHCGA delegation tours wind power equipment production facility of Taiyuan Heavy Industry Group in Taiyuan.



Members of JHCGA delegation meet with experts at Taiyuan Heavy Industry for participation in carbon innovation technologies in Wyoming.

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Community Conversation on Sustainable Destination Management

Jackson Hole's "power of place" is endangered by the very factors that attract people to it in the first place. Tourism in Grand Teton National Park has increased from 4.3 million to 4.8 million in the past two years. Traffic congestion, overloaded sanitation facilities, and more frequent conflicts between people and wildlife are just some of the difficult challenges that will have to be faced.

To address this growing problem, JHCGA joined with the Riverwind Foundation to conduct a "community conversation" on strategies for management of visitor impacts in the community. As the coordinating entity for the Yellowstone-Jackson Hole Sustainable Tourism program, the Riverwind Foundation been at the center of efforts to enhance the sustainability of visitor use programs and procedures in Jackson Hole. JHCGA brings its interest and involvement with international dialogues on these issues. Combined efforts between these two non-profits

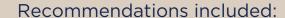
Tourism in Grand Teton National Park has increased from 4.6 million to 4.8 million in the past two years.

has yielded further clarification of the problems and solutions associated with the growing challenges of the area.

Those involved in the community conversation organized by JHCGA and Riverwind included senior

Yellowstone and Grand Teton park staff, town and county elected officials, leaders of the Jackson Hole Chamber of Commerce, state and local tourism and transportation boards, managers of local lodging and resort enterprises, tour operators, and other relevant organizations and agencies. Over a period of six months from April through October 2017 these stakeholders provided initial input in a series of interviews and then participated in a workshop that reviewed the results. A final report summarized findings and conclusions.

There was solid consensus that better tools and strategies are needed to manage the community's growing numbers of visitors.



- development and distribution of media content for visitor education;
 - means of promoting visitor utilization and compliance with existing community transportation and waste disposal/recycling initiatives;
- systems for rating and/or certification of responsible tour operators;
 - other concrete action steps for engaging Jackson Hole's tourism industry and visitors in sustainable tourism practices.

As a next step, JHCGA and Riverwind anticipate incorporating these and other results of the project with the support of the community into a comprehensive "Sustainable Destination Management Plan." A longer term objective is for JHCGA to follow-up the results of the study with a process for sharing "best

practices" in sustainable tourism with newly-established national parks in China. This comes full circle to the original project rationale, established in discussions in Wutai Shan in September 2016, of supporting China's efforts to enhance public access to its own domestic natural and cultural resources (p. 4).



Petria Fossel (far l), Sharon Mader (l), and Bobbi Moses (2nd from r) host presentation on Community
Participants in June 2017 Workshop of Community Conversation on Sustainable Tourism.

Petria Fossel (far l), Sharon Mader (l), and Bobbi Moses (2nd from r) host presentation on Community
Conversation on Sustainable Tourism.

Conversation at Thursday Roundtable by David Wendt, Lindsey Ehinger, Olivia Meigs, and Tim O'Donoghue.



Wyoming Wind Coalition



2017 University of Wyoming Wind Forum panel, Perspectives from wind developers (l to r) Ryan Jacobson, Power Company of Wyoming; Aron Branam, EDP Renewables; Paul Martin, Intermountain Wind: Juan Carlos Carpio Delfino, Viridis Eolia; Moderator: Nathan Wendt, Jackson Hole Center for Global Affairs

Wyoming Wind Coalition

Promotes Wind's Role In Economic Diversification

JHCGA's 2016 visit to China sought to promote Chinese investment in Wyoming wind manufacturing opportunities. These efforts provided the initial impetus for the Wyoming Wind Coalition

which in a short period of time, has become the leading pro-wind coalition in the State.

Aligned with Governor Mead's ENDOW Initiative to diversify Wyoming's economy, the Coalition promotes the role that investment in wind can play in rejuvenating economic growth.

Why Wyoming and why now?

Wyoming has the best land based wind resource in the U.S. and yet some of the worst wind policy. The National Renewable Energy Laboratory (NREL), ranks Wyoming, as having over 50 percent of the nation's best quality wind. Rather than incentivize this renewable resource, Wyoming is the only state in the country that taxes wind energy production at \$1 per megawatt hour (MWh), Furthermore there is continued discussion about raising this tax, hindering the certainty needed to facilitate investment into the sector. • To support Wyoming wind manufacturing jobs and set the stage to bring wind manufacturing to the state, the coalition has begun discussions with two wind manufacturing entities that have expressed an interest in Wyoming

as a future wind manufacturing facility location. Neighboring Colorado has 15 wind manufacturing facilities, supporting over 6,000 windindustry jobs. Wyoming has none.



• The coalition aims to attract corporate demand for renewable energy to Wyoming. Wal-Mart, a major Wyoming employer, will be working through the coalition to present their goal to procure renewable energy to the legislature. Other corporations, including Microsoft, Google, Apple, and Facebook, have made commitments

to power their data centers with 100 percent renewable energy. Microsoft already has a 100 percent renewable energy powered data center outside of Cheyenne.

At over 20 members – primarily local economic development agencies and wind development interests – the Coalition continues to grow and help promote the economic diversification role that wind can play for the state.

2017 Outreach:

- Assisted in the recruitment, messaging, and roll-out of the Goldwind Work's program in Rawlins, Casper and Gillette to provide free wind-technician training to Wyoming workers.
- Moderated pro-wind panel at the University of Wyoming's Wyoming Wind Forum.
- Testified before State Revenue Committee.
- · Ongoing monthly strategy calls.

WYOMING WIND COALITION MEMBERS

Economic Development Organizations

Forward Sheridan

Casper Area Economic Development Alliance
Carbon County Economic Development Corporation

Wind Industry

Goldwind Americas Viridis Eolia

EDP Renewables
Oftedal Construction

TRC Solutions

TP & L Management Solutions

Coffey Engineering &

Surveying Dick Anderson

Construction Spiderplow Power Storage Inc. Lancaster Energy

Group Logilube Wanzek

Steamboat Technical

Services

Taiyuan Heavy Industry Co. Ltd.

Vacutech

Loyd Drain Consulting

Environmental Groups

Yellowstone-Teton Clean Cities

THE GOALS OF THE COALITION ARE TO:

Increase Wyoming's annual wind energy generation to top 3 national levels;

Triple annual, full-time wind jobs in Wyoming;

Triple the state's annual wind revenue tax base;

Attract the first wind manufacturing facility to set up operations in Wyoming.

JHCGA Vice President Nathan Wendt gives presentation about wind power in Wyoming at Gillette seminar to announce Goldwind's Wind Tech Training program to transitioning coal miners



Age of Consequences Documentary Film

Explains Climate Change and National Security

During the summer and fall of 2017, with funding provided by the David Rockefeller Fund and support from the Wyoming Humanities Council, JHCGA screened in Jackson Hole, Cheyenne, and Casper the documentary film "the Age of Consequences". The film provides a different way of talking about and understanding climate change, by viewing it through the lens of national security and its impact on resource scarcity, migration and conflict.

Panel discussions following each of the screenings stimulated further thinking on these issues. Panel discussants included Lt. General Arlen Jameson, (USAF-ret.), a three-time former commander of the Fort Warren strategic air command, based in Cheyenne;

noted mountaineer and National Geographic photographer Jimmy Chin: and the filmmaker. Jared P.

The Jackson Hole screening was held at the Center for the Arts in downtown Jackson, with over 200 audience members attending.

"When disaster happens, they call us."

Lt.Gen. Arlen Jameson (USAF-ret.)

The audience responded enthusiastically to the presentation and discussion, with questions ranging from the atmosphere of political polarization surrounding the issues, to the nature of the generals surrounding the President, to potential impacts of climate



Lt.Gen. Arlen Jameson (USAF-ret.)

change in Jackson Hole.

Somewhat smaller audiences of 50-60 each attended the screenings in Cheyenne and Casper. Attendees wanted to know why the issue of climate change even continued to be debated, how Wyoming can play a meaningful role in the national climate change discussion, and what could be done about the issue at the local level.

Other aspects of discussions included the importance of public involvement in these issues, and the need for Wyoming citizens to speak up on energy issues if they want elected leaders to listen. An additional emerging threat discussed was the growing prominence of conspiracy theories and alternative narratives that undermine science, common sense, common good, and consensus.

Panel discussion at Jackson Hole Center for the Arts (l to r): David Wendt (moderator), Jared Scott, film maker, Lt. Gen. Arlen Jameson (USAF-ret.), Jimmy Chin, National Geographic film maker





Global Business Roundtable

JHCGA Treasurer Laurent Roux chairs the the Global Business Roundtable, a subscription based membership program that brings community leaders together for monthly luncheon discussions of global issues with national and international speakers.

GBR SPEAKERS 2016 - 2017

February 2016

Dr. Sanjay Putrevu

Dean, School of Business, University of Wyoming Trends in International Marketing

May 2016

Larry Wolfe

Of Counsel, Holland and Hart The Realities in Implementing the COP 21 Accord

June 2016

Keith Luse

Executive Director, National Committee on North Korea North Korea

July 2016

Ambassador Peter Schatzer

Former Chief of Staff, International Organization for Migration Migration and Asylum Seeking in Europe

August 2016

Frank Archibald

Former Director, National Clandestine Service, CIA The National Security Challenges that the next President will face on day one

Cameron Munter

President and CEO, EastWest Institute Geo-political challenges and solutions

September 2016

Christine Vick

Senior Advisor, Cohen Group; former Vice President, Kissinger Associates Engaging China

October 2016

Ambassador Gary A. Grappo

Former Ambassador to Oman The Middle East and Next U.S. President

November 2016

Kitty Pilgrim

CNN Anchor and Correspondent The Role of the Media Today in Society

December 2016

John Silvia

Managing Director, Chief Economist, Wells Fargo An Assessment of the State of the Global

January 2017

Gordon Bare

Retired State Department and Army Officer Key Geopolitical Risks Facing President Trump

February 2017

David Schwimmer

Global Head of Metals & Mining Investment Banking. Goldman Sachs & Co. Global Commodities

March 2017

David Firestein

Senior Vice President. Strategic Trust-Building Initiatives, EastWest Institute The Trump Presidency and Relations with China and Russia

Gary Stern

Former President, Federal Reserve Bank of Minneapolis The U.S. Economy

April 2017

R. Kris Coleman

President and CEO, Red Five Security Family Security

May 2017

Diana Mao

Founder, Nomi Network The State of Global Human Trafficking

June 2017

Richard Holwill

Former U.S. Ambassador to Ecuador Trump's Cuba Policy -- Does It Matter?

July 2017

Will Sarni

Former Partner, Deloitte Consulting Global Water - Scarcity and Solutions

Trevor Houser

Partner, Rhodium Group Can Coal Make a Comeback?

September 2017

Chuck Kutscher

Director, National Renewable Energy Laboratory Renewable Energy Technologies

Cameron Munter

President and CEO, EastWest Institute Global Security Trends

October 2017

Vanda Felbab-Brown

Senior Fellow, The Brookings Institute Combating Wildlife Trafficking

November 2017

Alex Muromcew

Emerging Markets Portfolio Manager China's Economic Role in Asia

December 2017

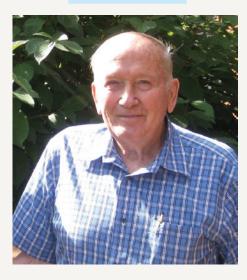
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John J. Hebberger, Jr.

Co-Vice President, Geologists of Jackson Hole Energy in Wyoming & the World: Critical Choices & Costs

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IN MEMORIAM



Brigadier General Amos A. Jordan (1922-2018)

"Joe" Jordan was chair of the JHCGA Advisory Board from 2007 to 2017. In a long, distinguished career, Dr. Jordan was head of the Social Sciences Department at the United States Military Academy (West Point); Executive Director, Aspen Institute; Acting Undersecretary, Department of State, President, Center for Strategic and International Studies; and President, Pacific Forum. He was mentor to a generation of international affairs professionals, who remember him with deep gratitude.

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Special Representative, China

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\$10.000 and Above

Patagonia

\$5,000 and Above

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*John and Ann Willott

*Jay Varley

*Robert Youngberg

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\$1,000 and Above

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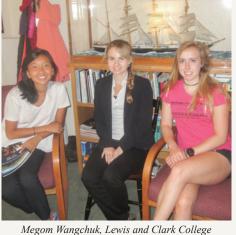
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*Participates in JHCGA Leadership Circle core support group

Interns



Robert Brown, City Kids Wilderness Program



Erin Weiss, Georgetown University Charlotte Cole, Harvard University



Jack Roubin, Jackson Hole High School

Anonymous

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* Beryl Weiner

Anonymous

Mark Barron



Financial Statement

January 1 - December 31, 2016

1/1/16 starting balance	67,825.07	
INCOME		
Contributions	The state of the s	
Program services	14,400.00	
TOTAL INCOME	130,602.83	
EXPENSES		
Travel and accommodations	13,661.25	
Conferences and hospitality	11,091.01	
Printing and communications	3,264.03	
Office rent	8,403.81	
Phone and internet	2,839.38	
Supplies and equipment	835.51	
Subscriptions and registration fees	579.78	
Wages	64,429.50	
Payroll tax		
Professional fees	6,948.40	
Directors and officers' insurance	2,025.00	
Bank fees	110.00	
TOTAL EVENISES	170,000,66	
TOTAL EXPENSES	130,908.66	
OVERALL TOTAL	(305.83)	
12/13/2016 closing balance	67,519.24	

Your tax-deductible contribution to the Jackson Hole Center for Global Affairs promotes public education in global affairs, citizen engagement on climate change and other global issues.

Financial Statement

January 1 - December 31, 2017

1/1/2017 starting balance	67,519.24	
INCOME		
Contributions	180,672.82	
Program services	17,237.55	
Reimbursements	175.00	
TOTAL INCOME	198,085.37	
EXPENSES		
Travel and accommodations	13,125.64	
Conferences and hospitality	21,836.94	
Printing and communications	3,790.32	
Office rent	10,505.09	
Phone and internet	3,513.99	
Supplies and equipment	510.77	
Subscriptions and registration fees	2,355.02	
Wages	78,873.08	
Payroll tax	25,911.57	
Professional fees	3,206.25	
Directors and officers' insurance	· ·	
Bank fees	530.88	
TOTAL EXPENSES	165,973.05	
OVERALL TOTAL	32,112.32	
Adjusting entry	891.69	
12/31/2017 closing balance	98,739.87	

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