

AUGUST 23–24, 2016
SPRING CREEK RANCH
JACKSON HOLE, WYOMING



BACKGROUND AND SCOPE

The Stroock Sovereign Wealth Forum provides an opportunity for conversation and reflection among global sovereign wealth fund leadership on issues important to a crucial sector of the global savings pool. This inaugural session comes during a period of unusual uncertainty in the global economy and financial markets, and thus an especially good time for further discussion on core questions:

1. **Role.** Has the evolving global economy altered the underlying rationales for which sovereigns have accumulated wealth funds? Historically, these have included “rainy day” resources to assist in managing short- to medium-term fiscal pressures, facilitating the public’s participation in natural resource extraction and ensuring the intergenerational sustainability of living standards through accumulation of “future funds.”
2. **Scale.** How large should a SWF be relative to the size of population, the fundamentals of the economy and the role expected of the fund?
3. **Governance.** Who is ultimately responsible for the design, governance, and management of a SWF? What are the advantages and disadvantages of the different approaches to this “authorizing environment”?
4. **Spending and investment policy.** Do evolving macroeconomic and financial market conditions call for a rethink of the spending and investment policy frameworks for SWFs, whether established to mitigate fiscal pressures, generate reliable current income for the public or accumulate resources for the longer term? Have changing conditions altered long-term return and volatility expectations? If so, what is the appropriate direction for important spending and investment decisions? Are there considerations that would lead to different responses for SWFs than for other pools of savings with similar objectives?
5. **Natural resource dependency.** For SWFs heavily dependent on natural resources for funding, what are the most effective tools available to mitigate the impact of price and production volatility on a SWF? Longer term, how can sponsors maintain a sustainable SWF in cases in which the corpus is derived from energy resources affected by carbon constraints?
6. **Risk tolerance, return expectations and investment practice.** What is the current thinking on active versus passive strategies, outsourcing investment management versus building internal expertise (whether by asset class, or for the entire portfolio)?
7. **Transparency.** What are evolving approaches to public transparency with respect to SWF governance and oversight, management, revenues, expenditures and investment performance? How can this transparency best be enhanced without impeding effective management?
8. **Stakeholder education.** Experience among a number of SWFs is that effective education of stakeholders and the general public concerning the fund’s purposes and policies can be important both in its own right and as a mechanism for ensuring SWF management has public support for effective spending and investment policies. What is the best way to accomplish this?

We anticipate a robust discussion and an opportunity to find consensus and direction on many of the issues facing SWF leadership, public decision-makers and their constituents, and the financial industry that serves them.

SCHEDULE OVERVIEW

MONDAY, AUGUST 22, 2016

Time	Event	Location
12:00pm – 5:00pm	Hospitality Desk/Registration Open	Ranch House Lobby
5:30pm	Shuttles depart for the Speakers' Dinner	Ranch House Lobby
6:00pm	Speakers' Dinner Please note: This dinner is limited to our Stroock Sovereign Wealth Forum presenters.	The home of Dr. Glenn and Mrs. Lisa Steele
9:00pm	Shuttles return from the Speakers' Dinner	

TUESDAY, AUGUST 23, 2016 – CONFERENCE DAY 1

Time	Event	Location
7:30am – 5:30pm	Hospitality Desk/Registration Open	Ranch House Lobby
7:30am – 8:30am	Breakfast Available	Sagebrush Foyer
8:30am – 10:15am	Morning Session	Sagebrush Ballrooms
10:15am – 10:30am	AM Break	Sagebrush Foyer
10:30am – 12:00pm	Morning Session continues	Sagebrush Ballrooms
12:00pm – 1:15pm	Lunch with Keynote Speaker: Young J. Boozer, III, State Treasurer of Alabama	Sagebrush Ballrooms
1:15pm - 1:30pm	Break	
1:30pm – 3:00pm	Afternoon Session	Sagebrush Ballrooms
3:00pm – 3:15pm	PM Break	Sagebrush Foyer
3:15pm – 5:00pm	Afternoon Session continues	Sagebrush Ballrooms
5:00pm	General Session concludes for the day	Sagebrush Ballrooms
6:00pm – 8:30pm	Reception and Dinner	The Granary Restaurant at Spring Creek Ranch. <i>Shuttles are available upon request by calling the front desk at extension 1120.</i>

WEDNESDAY, AUGUST 24, 2016 – CONFERENCE DAY 2 AND PUBLIC FORUM

Time	Event	Location
7:15am – 5:30pm	Hospitality Desk/Registration Open	Ranch House Lobby
7:15am – 8:30am	Breakfast Available	Sagebrush Foyer
7:45am – 8:30am	Breakfast Keynote Speaker: Esther L. George, President and CEO, Federal Reserve Bank of Kansas City	Sagebrush Ballrooms
8:30am – 10:00am	Morning Session	Sagebrush Ballrooms
10:00am – 10:15am	AM Break	Sagebrush Foyer
10:15am – 12:00pm	Morning Session continues	Sagebrush Ballrooms
12:00pm	General Session concludes and boxed lunches are available	Sagebrush Foyer
Afternoon	At Leisure	
4:30pm	Shuttles depart for VIP Reception and Public Forum	Ranch House Lobby
5:00pm – 5:45pm	VIP Reception prior to the Public Forum	Jackson Hole Center for the Arts located at 240 S. Glenwood St, Jackson, WY 83001
6:00pm – 8:15pm	Public Forum	Jackson Hole Center for the Arts
8:30pm	Shuttles return from Public Forum to Spring Creek Ranch	

THE STROOCK FORUM AGENDA

MONDAY, AUGUST 22, 2016

5:30pm Shuttles depart from the Ranch House Lobby at Spring Creek Ranch for the Speakers' Dinner

6:00pm Speakers' Dinner – Home of **Dr. Glenn and Mrs. Lisa Steele**

Please note: This dinner is limited to our Stroock Sovereign Wealth Forum presenters.

TUESDAY, AUGUST 23, 2016

7:30 – 8:30am Registration and Breakfast

8:30 – 8:45am Opening Remarks – **Matt Mead**, Governor of Wyoming

8:45 – 10:15am **Session 1.** Magnitude & Role: How big and what is the responsibility of a SWF?

Session will highlight research and discussion on how large a SWF should be relative to the population served. Session will also discuss how to create a sustainable SWF when the corpus is derived from energy resources which are impacted by carbon constraints, "unburnable carbon." Finally, government's role and responsibility to future generations regarding SWF management will be examined.

Moderator: Mark Gordon, State Treasurer of Wyoming

- a. **Brenna Erford**, The Pew Charitable Trusts
- b. **Samuel Wills**, ESRC Future Research Leaders Fellow in Economics at the University of Oxford
- c. **Angela Rodell**, CEO, Alaska Permanent Fund Corporation

10:15 – 10:30am Break

10:30 – 12:00pm **Session 2.** Resources: Energy funding natural resources

Session will focus on the resources which derive the corpus of the SWF, especially energy-based natural resources and the challenges of declining corpus funding as impacted by carbon constraints and commodity market prices. This session examines the state of affairs, investigates ideas and will foster a discussion on creating a sustainable SWF situation.

Moderator: Mark A. Northam, Ph.D., Director, School of Energy Resources, University of Wyoming

- a. **Howard Herzog**, Senior Research Engineer, Massachusetts Institute of Technology (MIT), Energy Initiative
- b. **Adam Robbins**, Sr. Membership Manager, International Forum of Sovereign Wealth Funds (IFSWF)
- c. **Edward B. Barbier, Ph.D.**, John S Bugas Professor of Economics, Department of Economics and Finance, University of Wyoming

- 12:00 – 1:15pm Lunch with Keynote: **Young J. Boozer, III**, State Treasurer of Alabama
Topic: A Case Study for Change: Do It the Right Way
- 1:15 – 1:30pm Break
- 1:30 – 3:00pm **Session 3.** Robustness: Long-term asset strategies views on SWF?
This session will examine SWF investment strategies, the treatment of SWF in comparison to other funds, what the rate of return should be for SWFs and acceptable risk tolerance.
Moderator: Robert Godby, Professor, College of Business Department of Economics and Finance, University of Wyoming
- a. **Adrian Orr**, Chair of International Forum of Sovereign Wealth Funds (IFSFW) and CEO, New Zealand Superannuation Fund
 - b. **Malan Rietveld**, Director, Kalytix Partners
 - c. **Paul O'Brien, Ph.D.**, Deputy Chief Investment Officer, Strategy Unit, Abu Dhabi Investment Authority
- 3:00 – 3:15pm Break
- 3:15 – 4:45pm **Session 4.** Governance: How much transparency?
Session will discuss transparency in the management and regulation of a SWF and who is ultimately responsible for its governance, design, and management.
Moderator: Jason F. Shogren, Stroock Professor of Natural Resource Conservation and Management, University of Wyoming
- a. **Alexa Lam**, Professor of Legal Practice, Faculty of Law, University of Hong Kong Faculty of Law, Hong Kong University
 - b. **Steve Moise**, State Investment Officer, New Mexico
 - c. **Khalid Alsweilem**, Fellow, Center for International Development Kennedy School of Government, Harvard University
- 4:45 – 5:00pm **Day 1 Closing Remarks – Anne MacKinnon, Ph.D.**, Adjunct Professor, Haub School of Environment and Natural Resources, University of Wyoming
- 6:00 – 8:30pm **Reception and Dinner Host: Mark Gordon**, State Treasurer of Wyoming

SPEAKER BIOGRAPHIES (IN ORDER OF PRESENTATION)

MATTHEW H. MEAD *Governor of Wyoming*



Matthew H. Mead was sworn in as Wyoming's 32nd Governor on January 3, 2011, re-elected on November 4, 2014, and inaugurated for his second term on January 5, 2015. Born in Jackson, Wyoming, Matt was raised on the family ranch in Teton County. He has a law degree from the University of Wyoming and a BA degree from Trinity University in San Antonio. After law school, he served as a county and federal prosecutor, practiced in a private firm, served as United States Attorney for Wyoming, and maintained – and still maintains – a farm and ranch business in southeast Wyoming with his wife Carol.

Since taking office, Governor Mead has put a focus on economic growth, a state energy strategy, a state water strategy, consolidation of government services, supporting local government and enhancing infrastructure, and creating additional access to high-speed broadband.

Representing the interests of the state, Governor Mead has served in regional and national leadership roles. From June 2015 to June 2016, he served as Chairman of the Western Governors' Association. He has served on the Council of Governors. In July 2016, he finished his term as Chair of the Natural Resources Committee of the National Governors Association and was named Vice Chair of that Committee, retaining a leadership position. He has served as Co-chair of the State and Federal Sage Grouse Task Force since it was formed. The Task Force brings together federal officials and representatives in 11 western states for a regional conservation effort. Matt and Carol have been married 24 years. They have two teenage children.

MARK GORDON *State Treasurer of Wyoming*



As Treasurer, Mark Gordon's principal duty is to safeguard and invest all the funds of the state. Mr. Gordon was elected to the position in 2014 but served for two years prior to that completing the term of Joe Meyer who passed away in office.

Wyoming's Treasurer serves as administrator for several programs including Wyoming Unclaimed Property and the Wyoming State Treasurer's Asset Reserve (WYO-STAR), a pooled investment vehicle for local governments. The Treasurer serves on eight other boards and commissions including the State Loan and Investment Board, Board of Land Commissioners, and Board of Deposits among others. The Treasurer also serves on the boards of the Wyoming Community Development Authority and Wyoming Retirement System.

Previously, Treasurer Gordon served as a Class B Director on the board of the Federal Reserve Bank of Kansas City, a Trustee of the Wyoming Wildlife and Natural Resource Trust, a member and chair of the Environmental Quality Council, a trustee of Johnson County School District 1 K-12, and other community boards. Nationally, he was elected in 2013 as Western Regional Vice President and has served on the Banking and Pension subcommittees of the National Association of State Treasurers. Treasurer Gordon has received accolades for the third year in a row as he was named in the "Top 100 Most Significant and Impactful asset Owners and Public Executives of 2015." This is a worldwide recognition awarded by the Sovereign Wealth Fund Institute (SWFI).

Mr. Gordon has had businesses on the main streets of Buffalo and Sheridan and worked for the oil and gas industry. He serves on the boards of Volunteers of America, the Ucross Foundation, and the Willow Park Reservoir Company. He grew up on a ranch west of Kaycee. He and his wife Jennie still own and run ranches in Johnson County. Together they have four grown children: two sons and two daughters.

Mr. Gordon graduated from Middlebury College in 1979 with a BA in History. He is an avid outdoorsman who enjoys fishing, hunting, climbing, rodeo, skiing, and kayaking. His experience reaches to agriculture, mineral and business development, tourism, recreation, and politics.

BRENNA ERFORD
The Pew Charitable Trusts



Brenna Erford manages Pew's work on state budget policy, which helps states identify strategies to better manage fiscal pressures resulting from economic and revenue volatility. Erford oversees the project's work with state budget leaders, including technical assistance to develop and adopt policy solutions. She also manages a team of researchers who identify and analyze proven approaches that serve as models for states. She is a frequent conference speaker and has testified before state legislative bodies as well as professional associations.

Before joining Pew in 2013, Erford worked on state fiscal and tax issues in a research and advocacy capacity at the North Carolina Budget and Tax Center. She previously served as a fiscal analyst for the North Carolina General Assembly's nonpartisan Fiscal Research Division and as a legislative analyst for the Illinois General Assembly's Office of the House Minority Leader. Erford received a bachelor's degree in rhetoric from the University of Illinois and holds a master's degree in public administration from North Carolina State University.

SAMUEL WILLS, PH.D.

ESRC Future Research Leaders Fellow in Economics at the University of Oxford



Sam is a macro- and financial economist studying how countries can better manage their natural resource wealth. His research addresses policy-relevant questions on fiscal, monetary, exchange-rate and sovereign wealth fund policy using both theory and empirics.

Sam is currently the principal investigator of an ESRC Future Research Leaders grant at the University of Oxford, where he has positions in the Department of Economics, the Centre for the Analysis of Resource Rich Economies (OxCarre), and Pembroke College. He is also affiliated with the Centre for Macroeconomics at LSE (CfM), and the Centre for Applied Macroeconomic Analysis at ANU (CAMA). In October 2016 he will join the Economics Department at the University of Sydney.

Sam has advised the World Bank on natural resource policy in Iraq, Libya and Uganda and has also worked with the IMF, the Bank of England, the International Growth Centre, the Australian Department of Prime Minister and Cabinet and the Australian Prudential Regulation Authority. In the private sector he has worked with Taylor Fry Actuaries, Westpac Bank and McKinsey and Co.

Sam completed a D.Phil (Ph.D.) in Economics (Oxford) in 2014 as a John Monash Scholar, and was awarded the David Walton award for the top candidate in macroeconomics or finance. He also holds an M.Phil in Economics (Oxford), and a B.Com in Actuarial Studies and Finance (UNSW). <https://samuelwills.wordpress.com/about/>

ANGELA RODELL, CEO

Alaska Permanent Fund Corporation



Angela M. Rodell serves as the Chief Executive Officer / Executive Director of the Alaska Permanent Fund Corporation, having been selected in October of 2015 by the Corporation's Board of Trustees. The APFC is a state-owned corporation, based in Juneau, Alaska, that manages and invests the assets of the \$53 billion Alaska Permanent Fund and other funds designated by law. As the CEO, Ms. Rodell is leading the APFC at a pivotal time in history as it continues to emerge as a profit center for the State of Alaska.

Ms. Rodell also served on the APFC's Board of Trustees as a cabinet member, having been appointed Commissioner of the Department of Revenue in August, 2013 by Governor Sean Parnell. In addition to serving as a Trustee, Commissioner Rodell enjoyed the oversight role in working with the divisions and 900 employees within Revenue, and participated as a member of several boards, including the Alaska

Retirement Management Board, the Alaska Housing Finance Corporation Board, the Alaska State Bond Committee and the Alaska Industrial Development and Export Authority, among others.

Ms. Rodell first joined the State of Alaska in September, 2011, as State Treasurer and Deputy Commissioner over Revenue's Treasury Division, Permanent Fund Dividend Division and the Child Support Services Division. Formerly, Ms. Rodell served as financial advisor to more than \$30 billion of transactions for state and state authorities in more than nine states, including Alaska. Transactions included general obligation, pension obligation, public power, tobacco securitization, affordable housing, and toll road and transportation financing. Prior to becoming a financial advisor, Ms. Rodell served as the finance officer to Kentucky Housing Corporation.

Angela Rodell has a Bachelor of Arts degree from Marquette University in Milwaukee, Wisconsin and a Masters in Public Administration from the University of Kentucky in Lexington, Kentucky.

MARK A. NORTHAM, PH.D.

Director, School of Energy Resources, University of Wyoming



Mark A. Northam is the founding Director of the School of Energy Resources at the University of Wyoming. He came to the university after a year and a half with Saudi Aramco in Dhahran, Saudi Arabia where he worked as a Research Science Consultant in the areas of Carbon Management and Technical Intelligence at the Research and Development Center. Prior to joining Saudi Aramco, Mark worked for over twenty years at Mobil and ExxonMobil, holding a variety of research, operations, and management positions in the US and Europe. Mark earned a Ph.D. degree in Organic Geochemistry from the University of Texas at Austin and a Bachelor of Science degree in Chemistry from Wake Forest University. He is originally from Virginia.

HOWARD HERZOG

Senior Research Engineer, Massachusetts Institute of Technology (MIT), Energy Initiative



Howard J. Herzog is a senior research engineer in the MIT Energy Initiative. He received his undergraduate and graduate education in chemical engineering at MIT. He has industrial experience with Eastman Kodak (1972-1974), Stone & Webster (1975-1978), Aspen Technology (1981-1986), and Spectra Physics (1986-1988). Since 1989, he has served with the MIT research staff, where he works on sponsored research involving energy and the environment, with an emphasis on greenhouse gas mitigation technologies. He was a Coordinating Lead Author for the IPCC Special Report on Carbon Dioxide Capture and Storage (released September, 2005), a co-author on the MIT Future of Coal Study (released March 2007), and a US delegate to the Carbon Sequestration Leadership Forum's Technical Group (June 2003-September 2007). He was awarded the 2010 Greenman Award by the IEAGHG (International Energy

Agency's Greenhouse Gas R&D Programme) "in recognition of contributions made to the development of greenhouse gas control technologies".

ADAM ROBBINS, SR.

Membership Manager, International Forum of Sovereign Wealth Funds (IFSWF)



Adam Robbins is Senior Membership Manager at the International Forum of Sovereign Wealth Funds, based in London. He is also a Research Affiliate with the Fletcher School's SovereignNET, an academic network focused on SWFs, and a Fellow at Bocconi University's Sovereign Investment Lab.

Before joining IFSWF, Adam worked with the World Bank's Sovereign Wealth Fund Secretariat, where he published case studies on SWF establishment and governance, and built and managed a knowledge-sharing platform focused on SWFs. Adam has also worked on SWF issues at Amundi Asset Management and Columbia University.

Adam earned a Master of International Business degree at The Fletcher School, Tufts University, and is a graduate of Colby College.

EDWARD B. BARBIER, PH.D.

John S Bugas Professor of Economics, Department of Economics and Finance, University of Wyoming



Edward B. Barbier is the John S Bugas Professor of Economics, Department of Economics and Finance, University of Wyoming. His main expertise is natural resource and development economics as well as the interface between economics and ecology. He has served as a consultant and policy analyst for a variety of national, international and non-governmental agencies, including many UN organizations, the World Bank and the OECD (Organization for Economic Cooperation and Development). He has authored over 250 peer-reviewed journal articles and book chapters, written or edited 22 books, and published in popular journals. He is consistently ranked among the top 15 cited environmental economists globally (<https://ideas.repec.org/top/top.env.html>), and Google Scholar lists him as currently having over 35,000 citations, with 15,000 since 2011. Barbier was elected a 2015 Fellow of the Association of Environmental and Resource Economists.

YOUNG J. BOOZER, III
State Treasurer of Alabama



Young Boozer was born in Birmingham and raised in Tuscaloosa. He earned a bachelor's degree in economics from Stanford University and a master's degree in finance from the Wharton School at the University of Pennsylvania. During the past four decades, Boozer's career in banking, finance and investments has taken him from Citibank in New York and Crocker National Bank in Los Angeles, to Coral Petroleum in Houston and Colonial Bank in Montgomery.

Treasurer Boozer also served as Deputy State Finance Director for Governor Bob Riley after his retirement in 2007. During his tenure in the Alabama Department of Finance, he played a key role in saving millions of taxpayer dollars through the restructuring of state bond debt and derivatives. Boozer left the Riley Administration in early 2010 to run for State Treasurer in his first race for elected office.

He is a member of and has held leadership roles in several organizations, including his church, the Rotary Club, the Alabama Shakespeare Festival, the Boy Scouts and Stanford University.

ROBERT GODBY, PROFESSOR
College of Business Department of Economics and Finance, University of Wyoming



Rob currently serves as the Director of the University of Wyoming's Center for Energy Economics and Public Policy. He is also an Associate Professor in the Economics and Finance Department at UW and has previously served as that department's chairperson. Hired in 1997 after previously teaching at Laurentian University in Sudbury Ontario, Rob completed his formal education in Canada where he earned his Bachelor of Science (Honors) in 1990 from Trent University in Peterborough Ontario, his Master of Arts degree in 1992 from the University of Guelph (pronounced "Gwelf" and John Kenneth Galbraith's alma mater) in Guelph, Ontario, and his Doctorate in economics from McMaster University in Hamilton, Ontario in 1997.

His research areas include natural resource, energy and environmental economics and policy, industrial organization and macroeconomic policy. He authored the book *The European Financial Crisis: Debt, Growth and Economic Policy*, released in 2013, and has recently authored a second book with co-author Stephanie Anderson on that topic, *"A Greek Tragedy and a European Odyssey: The Politics and Economics of the Euro-crisis"*, published in July, 2016. He has also published numerous articles and scholarly publications on environmental and resource policy, behavioral economics, and energy prices. His research has also helped to inform state policy in the areas of energy development and environmental policy, most recently with a series of reports on Wyoming's coal sector and the potential impact of future greenhouse gas regulation on state revenues. He has also advised Wyoming in the areas of education finance and skilled labor markets.

Rob's passions outside of work include sports-car and bicycle racing, both of which he has participated in rather unsuccessfully.

ADRIAN ORR

Chair of International Forum of Sovereign Wealth Funds (IFSFW) and CEO, New Zealand Superannuation Fund



Adrian joined the NZ Superannuation Fund in February 2007 from the Reserve Bank of New Zealand where he was Deputy Governor. Adrian has also held the positions of Chief Economist at Westpac Banking Corporation, Chief Manager of the Economics Department of the Reserve Bank of New Zealand and Chief Economist at The National Bank of New Zealand. He has also worked at the NZ Treasury and the OECD (Organization for Economic Cooperation and Development) based in Paris. Adrian is Board member of the Pacific Pension Institute and a member of the Expert Advisory Group for the World Bank's Treasury. He is also a Board Member of the Emory Center for Alternative Investments at Emory University, Atlanta, Georgia.

MALAN RIETVELD, FELLOW

Director, Kalytix Partners



Malan Rietveld is a Director at Kalytix Partners, a boutique consulting firm, focused on the governance, management and execution capabilities of long-term investors, such as sovereign funds, private and public pensions, endowments and foundations. Prior to joining Kalytix, Malan was a Director at Investec Institute, a client research team of Investec Asset Management, and worked in the firm's Emerging Market Debt investment team. He has led consulting and advisory projects for public and private investment institutions and financial-services firms, including the World Bank, the Asian Development Bank, the Governor of Alaska, PwC, Barclays and a number of sovereign wealth funds. He is a Fellow at the Center for International Development at Harvard Kennedy School of Government and at the Columbia Center for Sustainable Investment at Columbia University. He is the editor of three leading books on sovereign wealth funds. Malan has an MSc in Economics from the University of Leuven and an MSc in Economic History from the London School of Economics.

PAUL O'BRIEN, PH.D.

Deputy Chief Investment Officer, Strategy Unit, Abu Dhabi Investment Authority (ADIA)



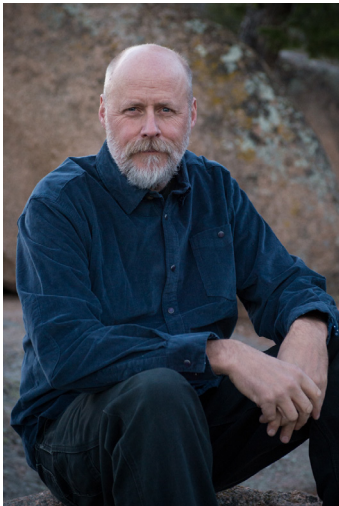
Dr. Paul O'Brien is Deputy Chief Investment Officer in the Strategy Unit. He leads the tactical asset allocation activities of the Unit and assists the Director in managing the Unit. Before 2015, he was Head of Fixed Income Strategy in the Strategy Unit where he was responsible for asset-allocation within fixed income.

He joined ADIA in January, 2009 from Morgan Stanley Investment Management in London where he was a senior portfolio manager in global fixed income. Previously, he had worked as an economist with JP Morgan and the Board of Governors of the Federal Reserve System.

Dr. O'Brien received a Ph.D. in Economics from the University of Minnesota, and a Bachelor of Science from the Massachusetts Institute of Technology.

JASON F. SHOGREN

Stroock Professor of Natural Resource Conservation and Management, University of Wyoming



Jason Shogren is the Stroock Professor of Natural Resource Conservation and Management in the Department of Economics & Finance at the University of Wyoming, his alma mater. He works on the economic institutions and behavioral underpinnings of environmental policy. He is a member of the Royal Swedish Academy of Sciences, a Fellow of the Association of Environmental and Resource Economists, the Agricultural and Applied Economics Association, and the Beijer Institute for Ecological Economics.

ALEXA LAM

Professor of Legal Practice, Faculty of Law, University of Hong Kong Faculty of Law, Hong Kong University



Professor Alexa Lam is Professor of Legal Practice at the Faculty of Law, University of Hong Kong (HKU). Having joined HKU in May 2015, she teaches two new LLB courses in securities law and regulation, and global financial reforms.

Prior to this, Professor Lam was the Deputy CEO of the Hong Kong Securities and Futures Commission (SFC) and Executive Director, Investment Products, International & China, until February 2015. She promoted actively financial co-operation between the Mainland and Hong Kong on capital market opening, new reform policies and cross border market innovations, including the Renminbi Qualified Foreign Institutional Investors (RQFII) and Mutual Recognition of Funds programs. She is one of the principal architects of the development of Hong Kong's offshore RMB business and RMB investment products.

At the SFC, Professor Lam also played a significant role in international regulatory initiatives. She co-chaired, with the Director of Banking Supervision and Regulation of the US Federal Reserve Board, the Working Group on Margining Requirements of the Basel Committee on Banking Supervision and the International Organization of Securities Commissions.

In 2015, Professor Lam spent three weeks as the Inaugural Distinguished Visitor at the Lieberthal-Rogel Center for Chinese Studies at the University of Michigan. She continues to speak at international forums around the world on financial market policy and regulatory issues.

Qualified as a lawyer in Hong Kong, New York and the UK, Professor Lam has 20 years of experience in corporate and commercial law practice in Hong Kong, Chicago and New York, and 16 years of securities regulatory experience.

STEVE MOISE

State Investment Officer, New Mexico



Steve Moise was appointed State Investment Officer by the State Investment Council in April 2010. He has worked with the Council, the Governor and Legislature to implement a complex restructuring of the SIC, its policies, procedures and investment strategies.

Steve has forty-plus years of experience in New Mexico's business and legal communities, having spent 24 years practicing corporate, real estate, banking and energy law with the Sutin, Thayer & Browne firm in Albuquerque and Santa Fe, also serving as the firm's managing shareholder. Steve subsequently founded Moise & Co., a merchant banking firm, which he led for 11 years. He served the University of Colorado Foundation for three years as its Senior Vice-President. He has business interests in New Mexico involving real estate, ranching and energy development.

Steve has played an active role in civic and philanthropic circles, serving as an officer, trustee or director for many organizations, where he has also served on and chaired several investment committees. He served on the State Board of Finance in 2009, and has also been counsel to and a director for Wells Fargo Bank of New Mexico and West Texas.

KHALID ALSWEILEM, PH.D.

Fellow, Center for International Development Kennedy School of Government, Harvard University



Dr. Alswilem is a Visiting Scholar with the Stanford Global Projects Center (GPC). In addition to his non-resident affiliation with Harvard Kennedy School's Belfer Center, Dr. Alswilem is a board/ investment committee member with several institutions. He is chairman of Ashmore Investment Saudi Arabia; an independent board member at Fajr Capital; and an investment committee member at the Arab Gulf Fund for Development. He is also Global Sovereign Wealth Funds Advisor with Price Waterhouse Cooper and the former Chief Counselor and Head of Investment at the Saudi Arabian Monetary Agency (SAMA).

He is one of the longest serving and most successful sovereign investment practitioners, having held senior investment positions at SAMA for over two decades. He joined SAMA in 1991 after completing a two-year post-doctoral fellowship at Harvard University's Department of Economics. Before that, he completed his Masters and Ph.D. degrees in economics at Boston University and the University of Colorado at Boulder. Dr. Alswilem began his work at SAMA as an advisor in the Investment Department, and two years later became the Head of Investment Management (Chief Investment Officer).

Dr. Alswilem was a lead author for three recent papers on sovereign funds models and institutions that were published as joint reports by the Belfer Center for Science and International Affairs and the Center for International Development at Harvard.

ANNE MACKINNON, PH.D.

Adjunct Professor, Haub School of Environment and Natural Resources, University of Wyoming



Anne MacKinnon has been a journalist in Wyoming for more than 35 years, and is currently Board Chair of WyoFile.com, the non-profit in-depth news website for Wyoming. Former editor of the Casper Star-Tribune, and a runner-up for the Pulitzer Prize in Public Service in 1985, she holds a BA from Harvard, a JD from UC Berkeley/Boalt Hall, and a Ph.D. in natural resource economics from Humboldt University in Berlin. She is an adjunct professor at the University of Wyoming's School of Environment and Natural Resources, and a consultant in water law and management policy.

WEDNESDAY, AUGUST 24, 2016

- 7:15 – 8:30am Breakfast
- 7:45 – 8:30am Breakfast Keynote: **Esther L. George**, President and CEO, Federal Reserve Bank of Kansas City
- 8:30 – 10:00am **Session 5.** Changing mindsets: Weathering the storm, to hedge or not to hedge?
- Session will explore the topic of whether SWF's should engage in active energy hedging strategies? Very few countries or SWF's have hedged their energy exposure. One exception is Mexico. They have hedged their oil exposure for the past 10 years. This session will explore what processes and procedures are needed to get this strategy approved and implemented. We will also discuss what factors should be considered now that prices have dropped. What are the pros and cons of the various hedging strategies and at what price points do these strategies offer the best risk and reward?*
- Moderator: Patrick Fleming**, Chief Investment Officer, State of Wyoming
- Jorge Mendoza**, Deputy Director General of Debt Issuance, Ministry of Finance and Public Credit, Mexico
 - Frank Verducci**, Managing Director-Structured Products Americas, BP Energy Company
 - Gregory P. Hill**, President and Chief Operating Officer, **Hess Corporation**
- 10:00 – 10:15am Break
- 10:15 – 11:45am **Session 6.** Expenditures: Planting economic future fund?
- Session will explore management of how much and how should the income generated by a SWF be redistributed back to the population including conservation, human capital and physical capital.*
- Moderator: Kenneth G. Lay**, Former Vice President & Treasurer, World Bank
- Axel R. Peuker, Ph.D.**, Director, Financial Advisory and Banking Department (FAB), World Bank
 - Kelly Schmidt**, State Treasurer of North Dakota
 - Douglas Stratton**, Alberta Investment Management Corp.
- 11:45 – 12:00pm **Forum Closing Remarks: Cynthia Lummis**, Congressman, U.S. House of Representatives
- 12:00pm Boxed lunches available – No speaker and afternoon open for leisure time
- 4:30pm Shuttles depart from the Spring Creek Ranch House Lobby for the VIP Reception and Public Forum
- 5:00 – 5:45pm VIP Reception at the Jackson Hole Center for the Arts

6:00 - 8:15pm **PUBLIC FORUM** – Jackson Hole Center for the Arts,
240 S. Glenwood Street, Jackson, WY 83001

Theme: *What is government's role and responsibility to future generations regarding SWF management?*

Special Forum Moderator: **Kathleen Hays**, Bloomberg Television

Q & A Moderator: **Anne MacKinnon, Ph.D.**, Adjunct Professor, Haub School of Environment and Natural Resources, University of Wyoming

Panelists:

- a. **Adrian Orr**, Chair of International Forum of Sovereign Wealth Funds (IFSWF) and CEO, New Zealand Superannuation Fund
- b. **Malan Rietveld**, Director, Kalytix Partners
- c. **Alexa Lam**, Professor of Legal Practice, Faculty of Law, University of Hong Kong Faculty of Law, Hong Kong University
- d. **Angela Rodell, CEO**, Alaska Permanent Fund Corporation
- e. **Samuel Wills**, ESRC Future Research Leaders Fellow in Economics at the University of Oxford

SPEAKER BIOGRAPHIES (IN ORDER OF PRESENTATION)

ESTHER L. GEORGE

President and CEO, Federal Reserve Bank of Kansas City



Esther L. George is president and chief executive officer of the Federal Reserve Bank of Kansas City. In 2016, she is a voting member of the Federal Open Market Committee, which sets U.S. monetary policy.

She has more than 30 years of experience at the Kansas City Fed, primarily focused on regulatory oversight of nearly 200 state-chartered banks and 1,000 bank and financial holding companies in seven states. She was directly involved in the banking supervision and discount window lending activities during the banking crisis of the 1980s and post-9/11.

During the most recent financial crisis, she served as the acting director of the Federal Reserve's Division of Banking Supervision and Regulation in Washington, D.C. She hosts the Federal Reserve Bank of Kansas City's annual Economic Policy Symposium in Jackson Hole, Wyoming, which is attended by central bankers from around the world.

She is a native of Missouri.

PATRICK FLEMING

Chief Investment Officer, State of Wyoming



Patrick Fleming is the Chief Investment Officer for the State of Wyoming's Treasurer's Office and is responsible for managing the State's 19.5 billion dollars in non-pension assets. Mr. Fleming spent 30 years working primarily in Tokyo, Hong Kong, London and New York specializing in domestic and global bond markets, equities and commodities. Mr. Fleming is a former CEO of a 77-year old investment firm in New York. He also taught corporate finance, investment management and energy trading, and hedging to MBA and undergraduate students at the University of Wyoming. Mr. Fleming holds a B.A. in Economics from Harvard University.

JORGE MENDOZA

Deputy Director General of Debt Issuance, Ministry of Finance and Public Credit, Mexico



Mr. Jorge Mendoza is the Deputy Director General of Debt Issuance at the Ministry of Finance and Public Credit of Mexico (MOF). Mr. Mendoza is responsible for the execution of the Federal Government's debt issuance program in the domestic and external markets, the oil hedging program, among other important activities related to the development of the local debt market. Prior to this position, he was Deputy Director General of International Affairs during the Presidency of Mexico in the G20.

Before joining the MOF, Mr. Mendoza worked in the Latin American M&A Group at Barclays Capital and in the Global Industrial and Services Group at Credit Suisse, where he executed numerous financing and advisory transactions.

Mr. Mendoza holds a Masters in Business Administration from Harvard Business School (2010) and a Bachelor of Business Administration from the University of Texas at Austin (2006).

FRANK VERDUCCI

Managing Director – Structured Products Americas, BP Energy Company



Frank Verducci is a Managing Director of Structured Products at BP Energy Company. He leads a team of seven commodity sales and origination professionals in the Americas that are responsible for E&P company physical and financial hedging, commodity-linked finance, and hedging in conjunction with Financial Sponsor energy investments. Frank has spent the last 11 years specializing in originating and structuring commodities-driven transactions with Financial Sponsors and their portfolio companies in the E&P, Midstream, Refining, and Power sectors. Frank joined BP from RBC Capital Markets, where he worked as an investment banker in the Global Energy Group.

Prior to launching a career in finance, he served for nine years as a Naval Aviator. He deployed throughout the Middle East, Asia and Latin America, and served as a Naval Aide to the President of the United States. Frank holds a B.S. in Economics from the United States Naval Academy, and an MBA in Finance from the University of Chicago Graduate School of Business.

GREGORY P. HILL

President and Chief Operating Officer, Hess Corporation



Greg Hill is President and Chief Operating Officer of Hess Corporation, a leading shale oil and gas producer and a leader in deepwater production and development. Its global portfolio is focused in five strategic areas: onshore North America; deepwater Gulf of Mexico, the North Sea, offshore West Africa, and offshore Malaysia. The company is also engaged in exploration activities focused in the Atlantic Basin that include the Gulf of Mexico, Guyana, and Nova Scotia. Prior to joining Hess, Hill spent 25 years at Shell in a variety of roles in Asia Pacific, Europe and the United States.

Hill holds a bachelor's degree in Mechanical Engineering from the University of Wyoming. He is a member of API Upstream Committee; co-chair of the Wyoming Governor's Energy, Engineering, STEM Integration Task Force; Vice-Chair of the University of Wyoming's Foundation Board of Directors; Vice Chair of the 2017 Houston Super Bowl Host Committee; Board member and Energy Committee Chair of the Greater Houston Partnership; Board member of the Wyoming Business Council; Board member of CEOs Against Cancer; and Board member of the Blue Ribbon Panel on Sustaining America's Diverse Fish and Wildlife Resources created in 2014 by the Association of Fish and Wildlife Agencies (AFWA).

KENNETH G. LAY

Former Vice President and Treasurer, World Bank



Kenneth Lay is Senior Managing Director of The Rock Creek Group, an asset management firm based in Washington D.C. that manages globally diversified portfolios of public and private assets for about 50 major institutional investors. In addition to his strategic and managerial responsibilities in the firm, he works with international institutions and NGOs in efforts to develop new approaches to increasing the scale and reducing the cost of financing for global public goods.

Before joining Rock Creek at the end of 2010, Mr. Lay served as Treasurer of The World Bank, where he and his colleagues managed more than \$100 billion in investments for the Bank itself, for other international financial institutions and for more than 40 of the World Bank's member countries' central banks, sovereign wealth and pension funds, using the revenues to fund an extensive program of capacity-

building partnerships and training for these clients. He also led its banking and capital markets programs as they delivered financing and risk management for the World Bank itself, and extended their reach to provide these services directly to its member countries and their instrumentalities.

At other stages in his World Bank career, Mr. Lay served as a country director in Latin America and Southeastern Europe, and headed the World Bank's financial sector practice, where he developed, with colleagues at the IMF, the "financial sector assessment program" that remains a cornerstone of international efforts to monitor and improve the health of countries' banking and capital markets. In an earlier stint in the World Bank Treasury he conceived and led the issuance of the first "global bond," which has become the principal vehicle for sovereign and supranational financing in international markets.

Before joining the World Bank, Mr. Lay was an enforcement lawyer with the U.S. Securities and Exchange Commission. He holds a BA from Dartmouth College, a JD from the George Washington University, the CFA designation and active membership in the State Bar of California.

AXEL R. PEUKER, PH.D.

Director, Financial Advisory and Banking Department (FAB), World Bank



Axel Peuker is the Director for the Financial Advisory and Banking Department (FAB) in the World Bank's Treasury.

He has worked at the World Bank Group for over 25 years. Prior to joining FAB, he served as Director for Policy and Operations in the World Bank Group's Corporate Secretariat, as Adviser to the Office of the Managing Director (MDW), as Manager of the joint Bank-IFC Investment Climate Unit, and as Economic Advisor to the Vice President in the Poverty Reduction and Economic Management Network. His operational assignments covered policy reform and private sector development in countries in political transition in the Middle East and North Africa Region and in the Latin America and Caribbean Region.

Axel Peuker pursued his Ph.D. Studies in Economics in Frankfurt, Kiel and New York, and is holder of the CFA Charter. Prior to joining the World Bank, he lectured at Fordham and Rutgers University and was Research Fellow at Pro-Desarollo, a Peruvian think tank. He also has regularly taught at the International Master of Public Management Program at the University of Potsdam, Germany.

KELLY SCHMIDT

State Treasurer of North Dakota



State Treasurer Kelly Schmidt has spent the last decade bringing accuracy, transparency and technology to the Office of State Treasurer. She believes strongly in limited and efficient government, and has worked hard to ensure taxpayer dollars are used in an economical and effective manner.

Growing up in North Dakota, Treasurer Schmidt learned the values of hard work, keeping her word, and serving her community. Those are the same values that led her to public service and continue to guide her decisions as she represents the people of North Dakota.

Always believing “the people’s treasury is the people’s business,” Schmidt was elected North Dakota’s 33rd State Treasurer in November 2004 and re-elected in 2008 and 2012. She and her staff provide analysis and data and bring transparency to the state treasury.

As mandated by statute, the State Treasurer also serves her state as a member of the North Dakota State Investment Board, the Teachers Fund for Retirement Board (TFFR), State Canvassing Board, State Board of Tax Equalization, State Historical Board, and the North Dakota Board of University and School Lands.

Recognized by her peers as a national leader, Treasurer Schmidt was elected Chair of the State Financial Officers Foundation in September 2014. She served as President of the National Association of State Treasurers (NAST) in 2011 and also chaired its foundation. The Council of State Governments has also named her a “Toll Fellow” for her achievement and service to state government.

In 2015, Schmidt was awarded the Desjardins Financial Education Award by the Credit Union National Association for her leadership on behalf of financial literacy. She is a founding member of the North Dakota Jump\$tart Coalition, past member of the Board of Directors for the National Jump\$tart Coalition and the American Savings Education Council.

Schmidt and her husband, Chuck have four sons and five grandsons. She is a proud “Navy Mom.”

DOUGLAS STRATTON

Alberta Investment Management Corp.



Douglas Stratton's career spans 30 years in investment and debt capital markets. He has been with the Alberta Investment Management Corporation (AIMCo) since January 2003. Prior to joining AIMCo, Douglas was the Executive Director of Investments, Pensions and Treasury Service at the Province of Nova Scotia, Canada, where he was responsible for all investment and debt capital markets activities and pension benefits administration. His earlier career was with the Province of Alberta, Canada in areas of investment and debt capital markets.

Douglas is a public director of the Canadian Investor Protection Fund (www.CIPF.ca). He has an Institute of Corporate Directors designation from University of Toronto, Rotman School of Management (ICD.D) and is a CFA charter holder from the CFA Institute. He earned a Bachelor of Commerce and a Bachelor of Science (Computing Science) from the University of Alberta, Canada. He is a past President of the CFA Society Edmonton, Canada and was also a director of the CFA Society Atlantic Canada. Douglas is an active volunteer in local community activities in Edmonton, Canada.

CYNTHIA LUMMIS

Congressman, U.S. House of Representatives



Cynthia Lummis (pronounced "Luh-miss") was elected to represent the people of Wyoming in the U.S. House of Representatives in 2008. She was raised on her family ranch in Laramie County and graduated from the University of Wyoming with bachelor degrees in Animal Science and Biology. In 1979, Cynthia became the youngest woman ever elected to the Wyoming Legislature. She returned to the University of Wyoming for a law degree, which she received in 1985.

Cynthia then clerked at the Wyoming Supreme Court, practiced law in Cheyenne, and served a total of fourteen years in the Wyoming House and Senate, concentrating on natural resource and taxation issues. She completed her legislative service in 1994 and then chaired Governor-elect Jim Geringer's transition team. She continued to work in the Governor's office for two more years, primarily on natural resource issues. Cynthia also served as the interim Director of State Lands and Investments.

Cynthia was elected Wyoming State Treasurer in 1998. In eight years (two terms) as Wyoming State Treasurer, she converted Wyoming's primarily fixed income investment portfolio of \$3.5 billion to a fully diversified portfolio of equities, real estate and fixed income investments, public and private, domestic and international, totaling \$8.5 billion. Her term of office as State Treasurer ended in January 2007.

Cynthia continues to be involved in the daily operations of the Lummis family ranch. She and her late husband, Al Widerspahn, a former Wyoming legislator and Cheyenne attorney, have one daughter, Annaliese.

As the sole House Representative for the state of Wyoming, Cynthia is a staunch advocate for fiscal responsibility, limiting the size and scope of the federal government and developing our nation's domestic energy capabilities. Cynthia is a member of the House Natural Resources and Oversight and Government Reform Committees.

KATHLEEN HAYS *Bloomberg Television*



Kathleen Hays is one of the top Economics reporters and anchors in the country, having covered the U.S. economy and the Federal Reserve for more than 20 years on television and radio, and in the print and electronic media.

Kathleen hosts "Taking Stock" on Bloomberg Radio, a program that covers the economic and political forces driving the U.S. and global economies and the global markets. She also covers global central banks and the global economy on Bloomberg Television's "Day-break Asia" show.

She is known nationally for her coverage and analysis of the Federal Reserve and the impact Fed policy has on interest rates, equities, and currencies; in particular her insightful, in-depth interviews with top Fed officials.

Hays joined the Bloomberg multimedia team in 2006, serving on Bloomberg Television as economics editor and anchor of "On the Economy."

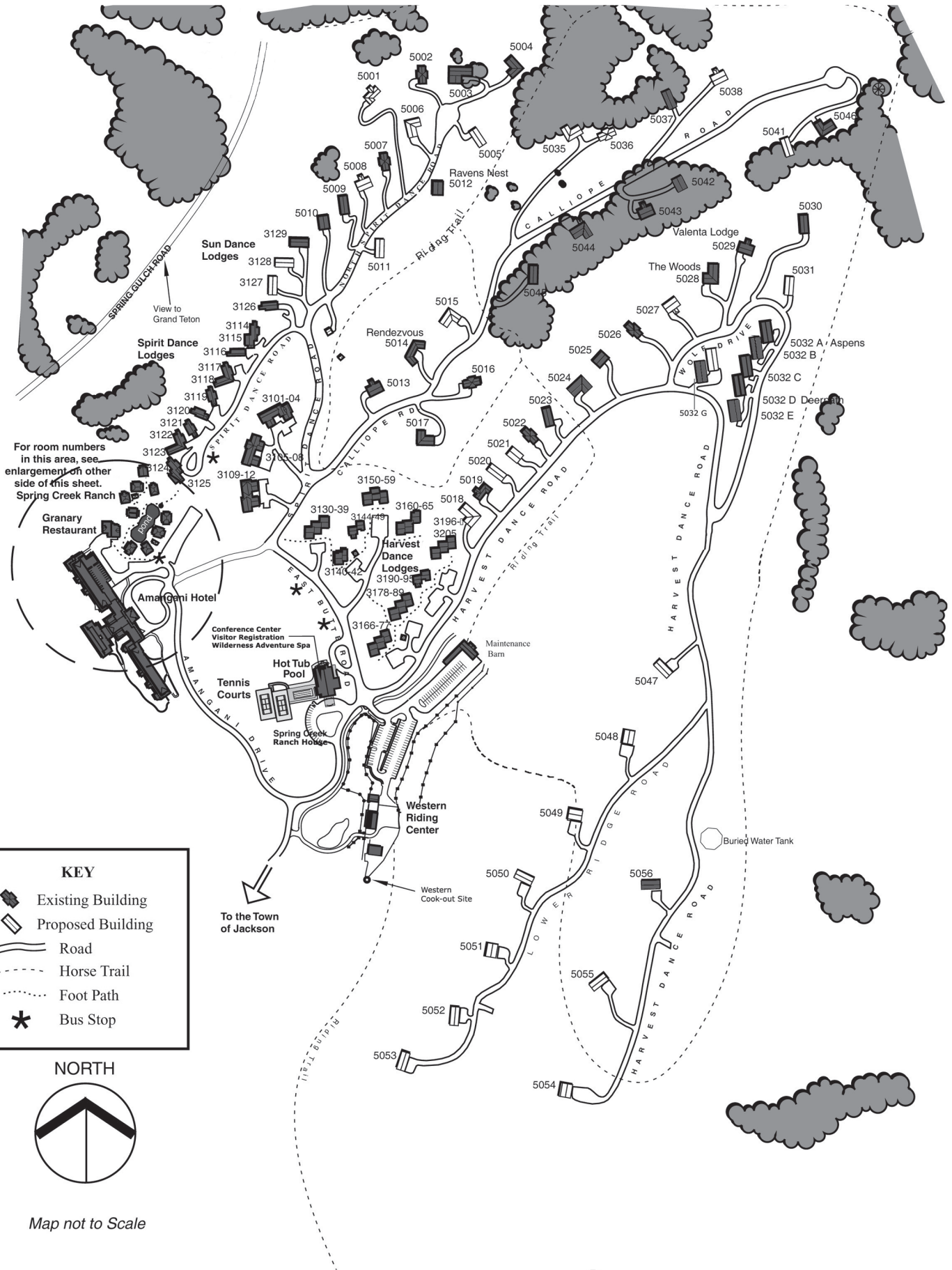
Kathleen came to Bloomberg TV from CNN where she served as Economics Correspondent for the network and appeared weekly on a weekend program, "On the Story." She also anchored "The Flipside" and "CNN Money Morning" on CNNfn. Hays wrote a popular column called "Hay-swire" and a Daily Eyeopener for CNNMoney.com.

Her TV career started at CNBC in 1990, when she was hired to be part of a three-person team on the daily business and economics talk show, "Business Insiders." Hays became one of the key players on the morning show "Squawk Box," known for coverage of the bond market, interest rates, and the U.S. economy. She was also Economics Editor for the network, hosting several segments throughout the day.

Hays started her career at Market News International, a financial news service, which she helped found and where she served on the board of directors. She was Economics Correspondent and New York Bureau chief from 1984 to 1986. In 1987 she joined Reuters to work on the Money Desk, covering domestic and global bond and currency markets, and central bank policy.

In 1989 Hays moved to Investors Business Daily, a national daily business newspaper, where she served as National Economics Correspondent and New York Bureau Chief.

She attended Stanford University where she earned her B.A. and M.A. in Economics. She is a past officer of the Money Marketeters of NYU.



For room numbers in this area, see enlargement on other side of this sheet. Spring Creek Ranch

KEY

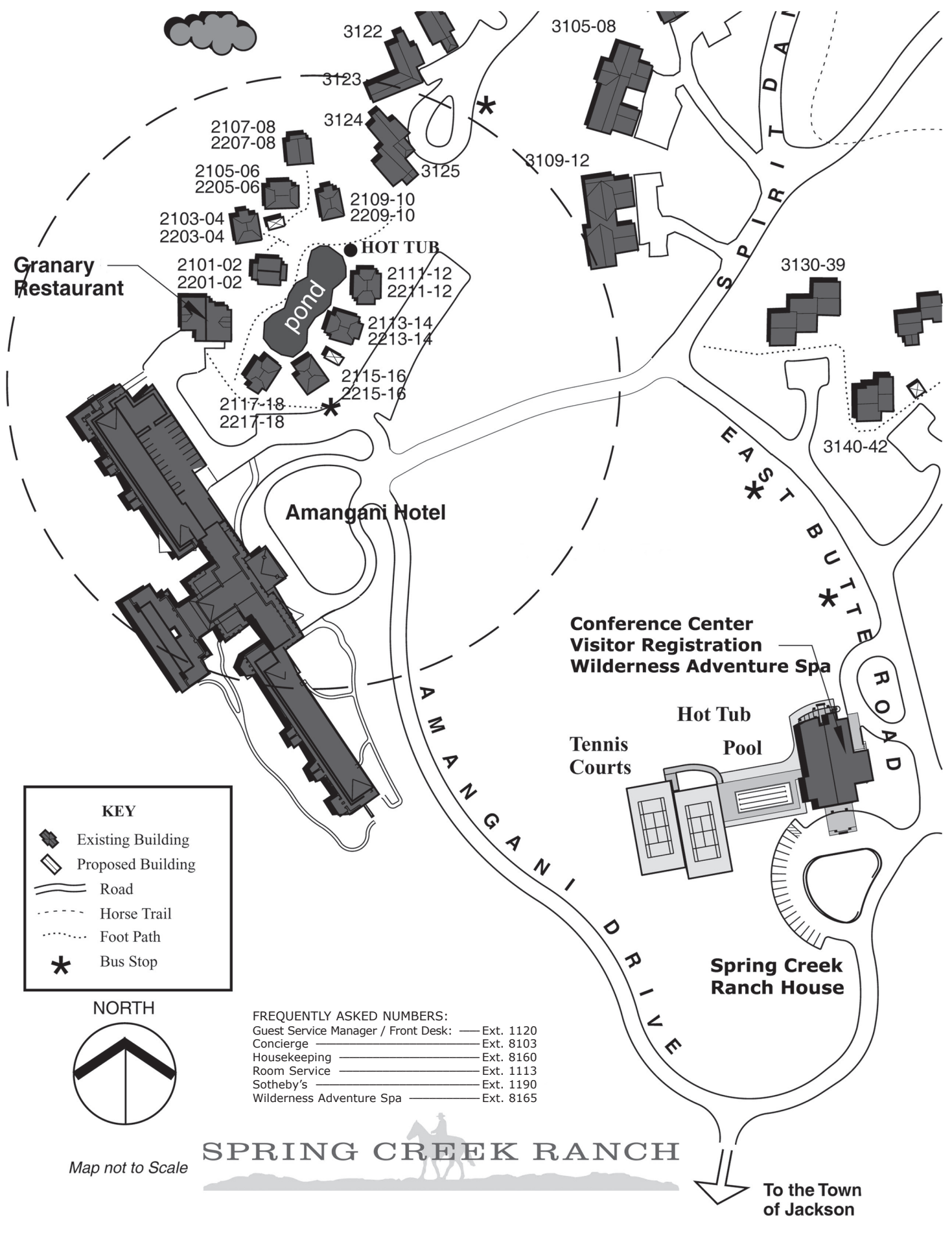
-  Existing Building
-  Proposed Building
-  Road
-  Horse Trail
-  Foot Path
-  Bus Stop



Map not to Scale

SPRING CREEK RANCH





**Granary
Restaurant**

Amangani Hotel

**Conference Center
Visitor Registration
Wilderness Adventure Spa**

**Hot Tub
Pool**

**Tennis
Courts**

**Spring Creek
Ranch House**

KEY

-  Existing Building
-  Proposed Building
-  Road
-  Horse Trail
-  Foot Path
-  Bus Stop



FREQUENTLY ASKED NUMBERS:

Guest Service Manager / Front Desk:	Ext. 1120
Concierge	Ext. 8103
Housekeeping	Ext. 8160
Room Service	Ext. 1113
Sotheby's	Ext. 1190
Wilderness Adventure Spa	Ext. 8165

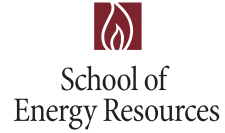
SPRING CREEK RANCH

Map not to Scale

**To the Town
of Jackson**

THANK YOU FOR YOUR PARTICIPATION

On behalf of the Stroock Forum, the University of Wyoming's School of Energy Resources and the Wyoming State Treasurer's Office, we'd like to thank you for your participation in the Stroock Sovereign Wealth Forum.



A proceedings document recapping the sessions will be available after the Forum. This document will be emailed to all conference participants.



www.uwyo.edu

1000 E. University Avenue
Laramie, WY 82071