

The Conference on CSR, the Economy and Financial Markets

Transitions: A Sustainable Wealth Management Conference

November 9 & 10, 2022

Northern Trust, 50 South La Salle St.
Chicago, IL



CONFERENCE DETAILS

Schedule

November 9, 2022 8:00 am – 5:00 pm - The Conference on CSR, the Economy and Financial Markets
November 10, 2022 8:15 am – 11:30 am - The Conference on CSR, the Economy and Financial Markets
November 10, 2022 12:00 pm – 5:00 pm – Transitions: A Sustainable Wealth Management Conference

The Conference on CSR, the Economy and Financial Markets is an annual event sponsored by Global Finance Journal that rotates its meeting among Chicago, Tokyo, and Düsseldorf. Returning to Chicago for the 2022 Conference, our co-sponsors are Greenleaf Advisors and Greenleaf Communities. Our principal corporate sponsor is Northern Trust Corporation, and we are grateful for their generosity. Please register for the [presentation of academic papers](#).

The Sustainable Wealth Management series is a joint effort between Greenleaf Advisors, DePaul University, and the Global Finance Journal that has focused on building sustainable value for impact and building portfolio values through investments that address environmental issues. This year's conference focuses on investment considerations amidst the transition towards resilience, adaptation, and mitigation of climate change. Please register for the [Sustainable Wealth Management conference](#).

Organizers:

[John Andersen](#), President, Greenleaf Advisors, LLC and Greenleaf Communities, NFP,
jandersen@greenleafadvisors.net

[Ali Fatemi](#), Editor-in-Chief, Global Finance Journal; Emeritus Chairman and Professor of Finance, DePaul University, afatemi@depaul.edu

[Bill Obenshain](#), Founder and former Executive Director, Keeley Center for Financial Services at DePaul University, wobensha@depaul.edu

The Conference on CSR, the Economy and Financial Markets

Program Chair:

Ali Fatemi, DePaul University & Greenleaf Advisors

Special Issue Guest Editor:

Lukas Roth, University of Alberta

Program Committee:

Giorgio Bertinetti, Ca' Foscari University
Audra Boone, Texas Christian University
Pierre Chollet, Montpellier University
Otgontssetseg Erhemjamts, Bentley University
Iraq Fooladi, Dalhousie University
Sadok El Ghouli, University of Alberta
Stuart Gillan, University of Georgia
Martin Glaum, WHU, Otto Beisheim School of Management
Omrane Guedhami, University of South Carolina
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Henri Servaes, London Business School
Yoko Shirasu, Aoyama Gakuin University, Tokyo
Takafumi Sasaki, Chuo University, Tokyo
Burcin Yurtoglu, WHU, Otto Beisheim School of Management



WEDNESDAY, NOVEMBER 9

| The Conference on CSR, the Economy and Financial Markets | | | |
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| 7:45 am - 8:00 am | Registration | | |
| 8:00 am – 8:45 am | Opening Keynote by Carl Tannenbaum (Session A) Chief Economist, Northern Trust <i>Climate Change: At a Crossroad</i> Session Chair: <i>Ali Fatemi, DePaul University</i> | | |
| | Sessions B | | |
| 8:45 a.m. – 10:15 am | <table border="1"> <tr> <td> <p>B1: ESG and the Politics Session Chair: <i>Arati Kale, Providence College</i></p> <p>Gas, Guns, and Governments: Financial Costs of Anti-ESG Policies <i>Daniel G. Garrett, Wharton</i> <i>Ivan T. Ivanov, Federal Reserve Board</i></p> <p>Discussant: <i>Arati Kale, Providence College</i></p> <p>Smokestacks and the Swamp <i>Emilio Bisetti, National University of Singapore,</i> <i>Stefan Lewellen, Penn State University,</i> <i>Arkodipta Sarkar, HKUST,</i> <i>Xiao Zhao, HKUST</i></p> <p>Discussant: <i>Helen Popper, Santa Clara University</i></p> </td> <td> <p>B2: ESG & Valuation Session Chair: <i>Ali Nejadmalayeri, University of Wyoming</i></p> <p>Do Consumers Care About Corporate Social Responsibility? Evidence from Retail Markets <i>Jiaying Wei, Southwestern University of Finance and Economics,</i> <i>Steven Chong Xiao, University of Texas at Dallas</i></p> <p>Discussant: <i>Brian Leite, Salve Regina University</i></p> <p>Environmental regulation, pollution, and shareholder wealth <i>Seungho Choi, Queensland University of Technology,</i> <i>Jonghyeon Park, University of New South Wales,</i> <i>Simon Xu, UC Berkeley</i></p> <p>Discussant: <i>Yiyuan (Zoey) Zhou, University of Hong Kong</i></p> </td> </tr> </table> | <p>B1: ESG and the Politics Session Chair: <i>Arati Kale, Providence College</i></p> <p>Gas, Guns, and Governments: Financial Costs of Anti-ESG Policies <i>Daniel G. Garrett, Wharton</i> <i>Ivan T. Ivanov, Federal Reserve Board</i></p> <p>Discussant: <i>Arati Kale, Providence College</i></p> <p>Smokestacks and the Swamp <i>Emilio Bisetti, National University of Singapore,</i> <i>Stefan Lewellen, Penn State University,</i> <i>Arkodipta Sarkar, HKUST,</i> <i>Xiao Zhao, HKUST</i></p> <p>Discussant: <i>Helen Popper, Santa Clara University</i></p> | <p>B2: ESG & Valuation Session Chair: <i>Ali Nejadmalayeri, University of Wyoming</i></p> <p>Do Consumers Care About Corporate Social Responsibility? Evidence from Retail Markets <i>Jiaying Wei, Southwestern University of Finance and Economics,</i> <i>Steven Chong Xiao, University of Texas at Dallas</i></p> <p>Discussant: <i>Brian Leite, Salve Regina University</i></p> <p>Environmental regulation, pollution, and shareholder wealth <i>Seungho Choi, Queensland University of Technology,</i> <i>Jonghyeon Park, University of New South Wales,</i> <i>Simon Xu, UC Berkeley</i></p> <p>Discussant: <i>Yiyuan (Zoey) Zhou, University of Hong Kong</i></p> |
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| 10:15 am – 10:30 am | Break | | |
| | Sessions C | | |
| 10:30 am – 12:00 pm | <table border="1"> <tr> <td> <p>C1: Sustainability Session Chair: <i>Quoc Nguyen, DePaul University</i></p> <p>Individual Investor Behavior and Sustainability <i>Thomas Jansson, Sveriges Riksbank, Sweden</i> <i>Vicke Noren, Sveriges Riksbank, Sweden</i></p> <p>Discussant: <i>Quoc Nguyen, DePaul University</i></p> </td> <td> <p>C2: The Rater's Effect Session Chair: <i>Vahap Uysal, DePaul University</i></p> <p>CSR Disclosures and Firm Value: Disentangling the Role of ESG Rating Providers <i>Albane C. Tarnauda, IESEG School of Management</i> <i>Mohammed Zakriya, IESEG School of Management</i></p> <p>Discussant: <i>Vahap Uysal, DePaul University</i></p> </td> </tr> </table> | <p>C1: Sustainability Session Chair: <i>Quoc Nguyen, DePaul University</i></p> <p>Individual Investor Behavior and Sustainability <i>Thomas Jansson, Sveriges Riksbank, Sweden</i> <i>Vicke Noren, Sveriges Riksbank, Sweden</i></p> <p>Discussant: <i>Quoc Nguyen, DePaul University</i></p> | <p>C2: The Rater's Effect Session Chair: <i>Vahap Uysal, DePaul University</i></p> <p>CSR Disclosures and Firm Value: Disentangling the Role of ESG Rating Providers <i>Albane C. Tarnauda, IESEG School of Management</i> <i>Mohammed Zakriya, IESEG School of Management</i></p> <p>Discussant: <i>Vahap Uysal, DePaul University</i></p> |
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| | Sessions C (continued) | |
| 10:30 am – 12:00 pm | <p>C1: Sustainability The Economics of Sustainability-Linked Bonds <i>Tony Berrada, University of Geneva</i> <i>Leonie Engelhardt, University of Geneva</i> <i>Rajna Gibson, University of Geneva</i> <i>Philipp Krueger, University of Geneva</i></p> <p>Discussant: <i>Akhtar Siddique, OCC</i></p> | <p>C2: The Rater’s Effect Local vs Foreign ESG Raters: Evidence from China <i>Jeff Chen, Texas Christian University,</i> <i>Zengquan Li, Shanghai University of Finance and Economics,</i> <i>Ting Mao, Chinese University of Hong Kong,</i> <i>Aaron Yoon, Northwestern University</i></p> <p>Discussant: <i>Jiawei (Brooke) Wang, University of Iowa</i></p> |
| 12:00 pm – 1:00 pm | Lunch | |
| | Sessions D | |
| 1:00 pm – 3:15 pm | <p>D1: Climate Change, ESG & Asset Returns Session Chair: <i>Mobina Shafaati, Old Dominion University</i></p> <p>Climate Change Salience and International Equity Returns <i>David Parsley, Vanderbilt University,</i> <i>Helen Popper, Santa Clara University</i></p> <p>Discussant: <i>Mobina Shafaati, Old Dominion University</i></p> <p>ESG Investing and Stock Return Co-movements <i>Lin Peng, Baruch College, City University of New York</i> <i>Jing Xie, Hong Kong Polytechnic University</i></p> <p>Discussant: <i>Natalya Bikmetova, University of Central Florida</i></p> | <p>D2: Enter the Government Session Chair: <i>Robert McDonald, Northwestern University and NBER</i></p> <p>Waiting or Acting: The Effects of Climate Policy Uncertainty <i>Jiawei (Brooke) Wang, University of Iowa</i></p> <p>Discussant: <i>Robert McDonald, Northwestern University and NBER</i></p> <p>Environmental regulatory risks, firm pollution, and mutual funds’ portfolio choices <i>Simon Xu, UC Berkeley</i></p> <p>Discussant: <i>Lixiong Guo, University of Alabama</i></p> <p>Green Public Procurement and Corporate Environment Policies <i>Wendi Huang, University of Hong Kong</i></p> <p>Discussant: <i>Chelsea Yang, University of British Columbia</i></p> |
| 3:15 pm – 3:30 pm | Break | |

| Sessions E | |
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| 3:30 pm – 5:00 pm | <p>E1: Perceptions & Attitudes Session Chair: <i>Xiang Gao, Loyola University Chicago</i></p> <p>ESG and Shareholder Value: The Role of Board Facial Impressions and Perceived Trustworthiness <i>Siew Hong Teoh, UCLA,</i> <i>Jiawen Yan, Cornell University,</i> <i>Aaron S. Yoon, Northwestern University,</i> <i>Luo Zuo, Cornell University</i></p> <p>Discussant: <i>Mohammed Zakriya, IESEG School of Management</i></p> <p>The Labor Market and ESG Adoption in the Mutual Fund Industry <i>Natalya Bikmetova, University of Central Florida</i></p> <p>Discussant: <i>Xiang Gao, Loyola University Chicago</i></p> |
| | <p>E2: Safety and Health Session Chair: <i>Tingting Liu, Iowa State University</i></p> <p>Outsourcing Workplace Safety <i>Sangeun Ha, Copenhagen Business School</i></p> <p>Discussant: <i>Steven Chong Xiao, University of Texas at Dallas</i></p> <p>Do Independent Boards Harm Employee Safety and Health? <i>Lixiong Guo, University of Alabama</i> <i>Zhiyan Wang, University of Alabama</i></p> <p>Discussant: <i>Tingting Liu, Iowa State University</i></p> |

THURSDAY, NOVEMBER 10

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| 8:00 am – 8:15 am | Registration |
| | Session F: General Sessions Session Chair: <i>Ravi Jagannathan, Northwestern University</i> |
| 8:15 am – 9:00 am | Environmental Activism, Endogenous Risk, and Stock Prices <i>Ravi Jagannathan, Northwestern University and NBER,</i> <i>Soo-hun Kim, KAIST,</i> <i>Robert McDonald, Northwestern University and NBER,</i> <i>Shixiang Xia, Hong Kong Polytechnic University</i> Discussant: <i>Pavel Savor, DePaul University</i> |
| 9:00 am – 9:45 am | Investor ESG Tastes and Asset Pricing <i>Liyang Wang, University of Nebraska, Lincoln</i> <i>Juan (Julie) Wu, University of Nebraska, Lincoln</i> Discussant: <i>Ravi Jagannathan, Northwestern University</i> |
| 9:45 am – 10:00 am | Break |
| 10:00 am – 10:45 am | Usefulness of Hard Information: Case of Default Risk and ESG Factors <i>Iftekhar Hasan, Fordham University,</i> <i>David Lynch, Federal Reserve Board,</i> <i>Akhtar Siddique, OCC</i> Discussant: <i>Ali Nejadmalayeri, University of Wyoming</i> |
| 10:45 am – 11:30 am | Female Equity Analysts and Corporate Environmental and Social Performance <i>Kai Li, University of British Columbia,</i> <i>Feng Mai, Stevens Institute of Technology,</i> <i>Gabriel Wong, Cardiff University,</i> <i>Chelsea Yang, University of British Columbia,</i> <i>Tengfei Zhang, Rutgers University</i> Discussant: <i>Aaron S. Yoon, Northwestern University</i> |

THURSDAY, NOVEMBER 10

Transitions: A Sustainable Wealth Management Conference

In this era of global transitions, climate change is a top priority with outsized impacts on investment portfolios. This conference focuses on investment considerations amidst the transition towards resilience, adaptation, and mitigation of climate change.

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| 11:45 am – 12:00 pm | Registration |
| 12:00 pm - 12:30 pm | Welcome, Lunch, and Opening Remarks by Kimberly Evans , Executive Vice President and Head of Corporate Sustainability, Inclusion and Social Impact at Northern Trust |
| 12:30 pm – 1:30 pm | Keynote by Robert Litterman , Chairman of the Risk Committee and founding partner at Kepos Capital, Climate Leadership Council member and lead author of Managing Climate Risk in the U.S. Financial System for the CFTC. Dr. Litterman will present on carbon pricing and assessing climate related risk in investment decisions. |
| 1:30 pm – 2:30 pm | <p>Panel: Climate-conscious investments in the agricultural and food sector.</p> <p>Moderator: David Donnan, Adjunct Professor at Northwestern and past partner at Kearney with global experience in the agriculture, food, and retail industries.</p> <p>Cristina Rohr, Managing Director, Food and Agriculture S2G Ventures work includes investments in genetics, crop protection, soil health and digital to consumer brands.</p> <p>Ann Bartuska, Senior Advisor, Resources for the Future on natural resources and forestry; focusing on climate solutions through forests and agricultural lands and Senior Contributing Scientist to EDF.</p> <p>Tyler Strom, Managing Director, Illinois Agri-Food Alliance with a goal to forge strong alliances with diverse partners for a sustainable future for food and ag.</p> <p>Paul West, Senior Scientist, Ecosystems and Agriculture, Project Drawdown is building a climate solutions roadmap to identify what is possible, how to achieve results, where and when solutions should be implemented and aligning financing to reduce emissions.</p> |
| 2:30 pm – 2:40 pm | Break |
| 2:40 pm – 3:20 pm | Don Wuebbles Lead Author of Fourth U.S. Climate Assessment; will present NAS framework on GHG emissions and decision-making; and Earth Knowledge’s integrated planetary intelligence platform serving corporations and financial services to harness opportunities and mitigate operational, supply chain, and investment risks. Frank D’Agnese and Julia Armstrong D’Agnese of Earth Knowledge will join Don to provide additional insight into the Earth Knowledge platform. |

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| <p>3:20 pm – 4:15 pm</p> | <p>Panel: Mitigating Risks and Incorporating Transitions This panel will discuss tools and standards for assessing and acting on climate risk.</p> <p>Moderator: Ben Bezark, Director, Greenleaf Advisors</p> <p>Jim Hietala, VP of The Open Group and its Open Footprint Forum, will present an assessment of the role of standards in furthering sustainability progress, and the impact on ESG investment opportunities as well as mapping out the landscape of the standards space and identify opportunities and gaps.</p> <p>Adam Fleck, Director of Equity Research at Morningstar. He leads ESG equity research efforts including collaboration with Sustainalytics. He will present on how they incorporate ESG risks in assessing investments.</p> <p>Jeff Cohen, Managing Director, Head of ESG & Sustainability, Oak Hill Advisors, and former Director of Capital Markets Integration at SASB, will present on standards utility in the marketplace, and role in creating positive social/env. outcomes through informed decisions.</p> |
| <p>4:15 pm – 4:45 pm</p> | <p>Closing Keynote: Chris Goolgasian, Dir. of Climate Research, Wellington Mgt. Chris spearheads an initiative with Woodwell Climate Research Ctr. integrating climate science & asset mgt to amplify their impact. Together, they use quantitative models to understand how and where climate change may impact global capital markets and developed investor tools and innovative analytical methods aimed at improving climate risk assessment and investment outcomes.</p> |

KEYNOTE SPEAKER



ROBERT LITTERMAN, Chairman of the Risk Committee and a Founding Partner of Kepos Capital

Bob Litterman is a founding partner of Kepos Capital and the Chairman of its Risk Committee. Prior to founding Kepos Capital in 2010, he enjoyed a 23-year career at Goldman Sachs & Co., where he served in research, risk management, investment, and thought leadership roles. He researched and published groundbreaking papers in asset allocation and risk management during his tenure at Goldman Sachs. He is co-developer of the Black-Litterman Global Asset Allocation Model. He is serving or has served on the board of Commonfund, Niskanen Center, Options Clearing Corporation, Resources for the Future, Robert Wood Johnson Foundation, the Sloan Foundation, Woodwell Climate Research Center, the CFTC Climate Related Market Risk Subcommittee, and others.

Bob holds a PhD in Economics from the University of Minnesota and a B.S. in Human Biology from Stanford University.

Kepos Capital, founded in 2010, is a registered investment adviser based in New York City. They manage over \$2 billion in assets for a global, institutional investor base. Their investment strategies span from systematic macro to carbon transition and carbon allowance markets. Their models seek to deliver returns that are lowly correlated to broad market indices and other investment programs, and they continually evaluate and improve their process in response to new findings, changes in market conditions, and industry competition.

OPENING REMARKS



KIMBERLY EVANS, Executive Vice President, Head of Corporate Sustainability, Inclusion and Social Impact

Kimberly Evans is an Executive Vice President at Northern Trust. Reporting directly to the CEO of Northern Trust, she is the Head of Corporate Sustainability, Inclusion and Social Impact for the firm. This role is responsible for developing the enterprise strategies for ESG, Diversity, Equity & Inclusion, and Community Development & Investing.

Prior to this role, she led the growth of the North America Private Capital Fund Services business, previously managed the Governmental, Sovereign Wealth, and Taft Hartley/Union pension and treasury business, in the US, Central and South America, and was responsible for the Global Client Accounting Practice serving the data delivery and reporting needs of the firm's institutional and wealth clients.

With over 25 years of experience, Kim has become a business transformation expert. Kim has developed, led, and executed business and change strategies for five financial services companies, managed teams in six countries, and has implemented institutional programs impacting thousands of financial services professionals throughout her career. She has also owned and operated businesses as an independent consultant and as a franchise owner.

Kim graduated from the University of Illinois at Urbana-Champaign with a Bachelor of Science in Psychology and has earned numerous business, leadership, and technical certifications throughout her career.

Kim was recognized by Savoy Magazine in 2022 as one of the Most Influential Black Executives in Corporate America, named one of the Iconic 22 from Delta Sigma Theta Sorority, Inc. – Chicago Metropolitan Alumnae Chapter, named a 2021 Leader That Can from Schools That Can, one of the 50 Leading Women in the 2020 Hedge Fund Journal, a Chicago United 2019 Business Leader of Color Honoree, is a Leading Women's Executive Alumni, and a three-time Chairman's Award recipient. She was also recognized as a Leader in Philanthropy by the University of Chicago and currently serves on the board of the Chicago Public Education Fund (The Fund) which targets the development of principals within Chicago Public Schools (CPS). She also serves on the boards of the Chicago Urban League and the Chicago State Foundation. She is a distinctive member of C200, a powerful community of successful businesswomen and the Economic Club of Chicago.

PANEL: CLIMATE-CONSCIOUS INVESTMENTS IN FOOD AND AGRICULTURE

Panel: Climate-conscious investments in the agricultural and food sector.



Moderator: David Donnan, Adjunct Professor at Northwestern and past partner at Kearney with global experience in the agriculture, food, and retail industries.

Dave is an accomplished business leader and consultant with global experience in the agriculture, food and retail industries. Dave has run operating companies, managed food plants and consulted to leading global retail and consumer product companies in technology and supply chain strategies, brand growth and market positioning. He is a partner emeritus with Kearney, a global management-consulting firm, and ran their global food & beverage practice for ten years.

A champion of innovation in the food sector, he works as an investor and mentor with many entrepreneurs and startups in the agriculture and food industry. David is an advisory board member of the Global Midwest Alliance, Spiral Sun Investments and Plug and Play Tech Center. He serves on the boards of the Foundation for Food & Agriculture Research, Protein Industries Canada, Rubicon Organics, and Naturally Chicago.

David is a professional engineer and holds a Masters in Business Administration from the Rotman School at the University of Toronto.



Ann Bartuska, Senior Advisor, Resources for the Future on natural resources and forestry; Senior Contributing Scientist to EDF.

Dr. Bartuska is focusing her efforts on natural resources and forestry, especially consideration of natural climate solutions through forests and agricultural lands. She also will be doing outreach in support of the valuation of information (VALUABLES) obtained through satellite imagery. Dr. Bartuska joined RFF in 2017 after serving as the US Department of Agriculture's (USDA's) Deputy Under Secretary for Research, Education, and Economics as well as chief scientist. Prior to USDA, Dr. Bartuska held a host of leadership positions, including Deputy Chief for Research and Development of the US Forest Service. She currently is a member

of the National Academy of Sciences' Standing Committee on Science Communication and a member of the Board on Environmental Science and Toxicology. She was elected President of the Ecological Society of America for 2003 and was recently named an AAAS Fellow.

Dr. Bartuska holds a PhD in biogeochemistry and ecosystem ecology, West Virginia University, an MS in botany and ecology, Ohio University, and a BS in biology, Wilkes College.



Cristina Rohr, Managing Director, Food and Agriculture, S2G Ventures

Cristina Rohr is a Managing Director of Investments with S2G Ventures. Cristina's portfolio work ranges from agriculture focused investments in genetics, crop protection, soil health and digital/IOT to consumer facing brands.

Cristina has nearly 10 years of experience in sourcing, executing, managing and exiting venture and private equity investments. Before joining S2G Ventures, Cristina was a private equity investor with the Edgewater Funds in Chicago and, prior to that, with First Reserve in London, where she focused on leveraged buyout investments in the natural resources industry. Cristina also previously worked for Citigroup Investment Banking Division in London.

Cristina graduated from Stanford University with a Bachelor of Arts and Sciences with a double major in Mathematical and Computational Sciences and Economics. She earned her MBA from the University of Chicago's Booth School of Business.

PANEL: CLIMATE-CONSCIOUS INVESTMENTS IN FOOD AND AGRICULTURE



Tyler Strom, Managing Director, Illinois Agri-Food Alliance (ILAFA)

Tyler is managing director of the Illinois Agri-Food Alliance (ILAFA) and has been intimately involved with the organization since the development of the FARM Illinois RoadMap in 2014. ILAFA provides a neutral platform for convening stakeholders all across Illinois' diverse agri-food ecosystem to address complex challenges and chart a collaborative path toward a sustainable, competitive, and innovative future. Prior to his current role, Tyler was a fellow of global agriculture and food at The Chicago Council on Global Affairs. His expertise is in agri-food systems, sustainability science, multi-stakeholder collaborations, and systems thinking. By leveraging his skills in strategy, communications, relationship

development, and project design, his ambition is to forge strong alliances with diverse partners to chart a sustainable future for food and agriculture.

Tyler serves on the advisory committee for the Illinois Leadership Council for Agricultural Education, the Chicago Wilderness Agriculture Committee, and the Office of the Lieutenant Governor's Equity and Food Insecurity Initiative. He is also a contributor to the American Farmland Trust's Abundant Future Working Group, the Midwest Climate Collaborative, and the Network for Employer-led Workforce Solutions (NEWS). Tyler is a previous McCloy Fellow and Rotary Ambassadorial Scholar and earned his BSc in agricultural business and economics from Iowa State University and his MSc in environmental studies and sustainability science from Lund University in Sweden. A fourth-generation farmer, Tyler enjoys operating a diversified direct-to-market specialty crop farm and apiary in his "spare time" in Campton Hills, IL.



Paul West, Ph.D., Senior Scientist, Ecosystems and Agriculture, Project Drawdown

Paul West, Ph.D., is an ecologist developing science-based solutions for sustaining a healthy planet for people and nature. Paul is assessing how climate solutions can create win-wins and trade-offs for conserving biodiversity, creating a sustainable food system, and many other aspects of planetary health and human well-being.

Paul joined Project Drawdown from the University of Minnesota, where he maintains an appointment. His research has focused on improving both global food security and the environment. Paul's impact goes well beyond academia. He works with a global network of leading scientists, development banks, non-profit

organizations, businesses, tribal nations, and national governments. These collaborations have provided the foundation for targeting \$100M+ annually toward on-the-ground actions around the world to protect biodiversity, develop climate-resilient farming systems, preserve cultural heritage, and improve livelihoods.

Paul worked for The Nature Conservancy from 1993-2010, where he led both land and freshwater projects. His accomplishments include leading strategic planning for biodiversity conservation across the western Great Lakes region and launching a global initiative to conserve large rivers in agricultural landscapes in the US, Brazil, China, and Zimbabwe.

Paul received a PhD from the University of Wisconsin-Madison, where he developed new methods for quantifying the tradeoffs of food production, climate, biodiversity, and water. In 2019 and 2020, the Web of Science named him one of the world's most influential ecology and environmental researchers of the past decade, placing him in the top 1% of scientists globally.



Don Wuebbles, Director of Climate Science, Earth Knowledge & Emeritus Professor of Atmospheric Science, University of Illinois

Dr. Don Wuebbles leads Global Change Science Integration at Earth Knowledge and is Professor Emeritus of Atmospheric Science at the University of Illinois. He led the development of the Center for Urban Resilience and Environmental Sustainability (CURES) across the three UI campuses. From 2015 to early 2017, Dr. Wuebbles was Assistant Director with the Office of Science and Technology Policy at the Executive Office of the President in Washington DC, where he was the White House expert on climate science. Dr. Wuebbles is an expert in atmospheric physics and chemistry, with over 500 scientific publications related to the Earth's climate,

air quality, and the stratospheric ozone layer. His work goes well beyond that through providing analyses and development of metrics used in national and international policy and in developing analyses for understanding climate impacts on society and ecosystems, plus potential resilience and societal responses. He was Coordinating Lead Author on several international climate assessments led by the Intergovernmental Panel on Climate Change (IPCC) that resulted in IPCC being awarded the Nobel Peace Prize in 2007. He co-led the first volume of the 4th U.S. National Climate Assessment that assesses the science of climate change and its effects on the United States. He led an assessment on the impacts of climate change on the Great Lakes published in March 2019 and co-led a special assessment of the impacts of climate change on the state of Illinois published in May 2021.

Dr. Wuebbles has two degrees in Electrical Engineering from the University of Illinois and a Ph.D. in Atmospheric Sciences from the University of California, Davis.



Julia Armstrong D'Agnese Chief Executive Officer and Co-Founder

Julia Armstrong D'Agnese is an innovator and change-maker and as Earth Knowledge CEO drives strategic partnerships and big-picture transformational opportunities to help build a more sustainable world. Julia inspires highly successful work such as with Microsoft where Earth Knowledge has been selected as the #1 Climate and Sustainability partner for #BuildFor2030. She co-led the Earth Knowledge Portal, the first to market sustainability portal, with Google, BBC, Guardian, WWF which 80% of the countries of the world accessed. Julia was key in the Obama White House Climate Data Initiative work with the development and launch of PREP (Partnership for Resilience and Preparedness).

She co-authored thought leadership with EY and Microsoft including "Waking up to Nature: a biodiversity imperative for financial services," WWF and the World Bank "Geospatial ESG" and "Spatial Finance" and has presented at conferences such as the Swiss Sustainable Finance. Julia holds a BS in Spanish and Business with International Studies from the University of Illinois, Champaign-Urbana, an MS in Psychology from the University of Arizona, and a post-graduate degree on dynamics of success in business, leadership, innovation and change management.



Frank D'Agnese President/Chief Technical Officer and Co-Founder

Dr. Frank D'Agnese is an innovator and creator of cutting-edge technology to empower cross-functional agility in organizations. Recently, he led Earth Knowledge in creating a Digital Twin of the Earth along with the development of the 300+ global change and sustainability key indicators framework.

Frank's innovative vision of the Earth Knowledge Platform, which he began architecting in the late 1990s, foreshadowed foundational cloud computing components that Microsoft, IBM and Google later built. His work involving first-to-market design and implementation of the Earth Knowledge Portal with Google provided a massive information hub of live-streaming natural, social and economic information. Frank's work has informed important decisions by The White House; numerous federal, state and municipal government agencies; and industry leaders worldwide. Before co-founding Earth Knowledge, Frank was a senior level manager at the US Geological Survey, directing technical programs of national and international significance, all of which involved earth system science, big data, geographic information integration and enterprise collaboration. His leadership in these areas has resulted in over 100 publications and presentations. Frank holds a BS (summa cum laude), ME and PhD in Geological Engineering, Environmental Science, Earth Systems Modeling, and Information Management from the Colorado School of Mines.

PANEL: MITIGATING RISKS AND INCORPORATING TRANSITIONS



Moderator: Ben Bezark, Director at Greenleaf Advisors and Greenleaf Communities

Ben is a Director at Greenleaf Advisors and Greenleaf Communities where he works with clients to meet their business and environmental objectives. He joins Greenleaf from the Cradle to Cradle Products Innovation Institute where he led the development of operational systems and technologies to facilitate the growth of the Cradle to Cradle Certified® Products Program to thousands of products from over 600 companies around the world. Ben brings experience in operational and technology management, product design and development, and circularity and waste reduction.

Ben holds his MS in Product Design and Development Management from Northwestern University and B.S. in Community Development and Applied Economics from the University of Vermont.



Jim Hietala, Vice President, Business Development and Security, The Open Group
Jim is Vice President, Business Development and Security for The Open Group, where he manages the business team, as well as Security and Risk Management programs and standards activities. He has participated in the development of several industry standards. He also led the development of compliance and audit guidance for the Cloud Security Alliance v2 publication. He has published numerous articles on information security, risk management, and compliance topics in publications including CSO, The ISSA Journal, Bank Accounting & Finance, Risk Factor, SC Magazine, and others.

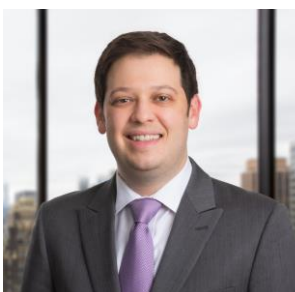
An IT security industry veteran, he has held leadership roles at several IT security vendors. Jim holds a B.S. in Marketing from Southern Illinois University.



Adam Fleck, Director of Equity Research, ESG, Morningstar
Adam Fleck is the director of equity research, ESG for Morningstar Research Services LLC, a wholly owned subsidiary of Morningstar, Inc. He leads Morningstar's environmental, social, and governance equity research efforts, including collaboration with Sustainalytics, along with a team of analysts in Chicago and Amsterdam.

Before assuming his current role, Adam was Morningstar's regional director of equity research in Australia and New Zealand and director of North American consumer equity research. He joined Morningstar in 2006.

Adam holds a bachelor's degree in business administration from the University of Notre Dame, where he graduated cum laude. He also holds the Chartered Financial Analyst® designation.



Jeff Cohen, Managing Director, Head of ESG & Sustainability, OHA
Jeff has management responsibility for the incorporation of environmental, social and governance (ESG) matters within Oak Hill Advisors' (OHA) investment processes as well as other sustainability initiatives at the firm. Jeff is a member of OHA's ESG committee, risk committee and a member of OHA's Diversity, Equity & Inclusion Council. He is also a member of the Loan Syndications & Trading Association (LSTA) ESG Advisory Board. Prior to joining OHA, he was the Director of Capital Markets Integration and Head of Private Investments Initiatives at the Sustainability Accounting Standards Board Foundation (SASB). Jeff advised alternative investors

on the development and integration of ESG factors into various phases of the investment process.

Jeff earned an M.B.A. from the Georgetown University McDonough School of Business and a B.B.A from the University of Michigan's Ross School of Business. Additionally, he has earned the Chartered Alternative Investment Analyst designation and is a Fundamentals of Sustainability Accounting Credential holder.

CLOSING KEYNOTE



Christopher J. Goolgasian, CFA, CPA, CAIA Senior Managing Director and Director, Climate Research

As director of Climate Research on the Sustainable Investment Team, Chris spearheads a collaborative initiative between Wellington Management and Woodwell Climate Research Center (WCRC) to integrate climate science and asset management. This alliance, launched in 2018, is focused on creating investor tools and insights to better understand how and where climate change may impact global capital markets. Chris is also the Portfolio Manager for Wellington's Climate Adaptation strategy.

Prior to joining Wellington Management in 2014, Chris was head of Portfolio Management – Americas within the Investment Solutions Group at State Street Global

Advisors (2010 – 2014). Before joining State Street, he held a number of different investment roles at Fidelity Investments and Pyramis Global Advisors beginning in 1997.

Previously, he was a CPA with Kaplan, Moran, Digennaro in the public accounting field (1995 – 1997).

Chris earned both his BA (1995) with a concentration in accounting and his MBA (1997) with a concentration in finance from Bryant University. Additionally, he holds the Chartered Financial Analyst and Chartered Alternatives Investment Analyst designations, and he is a CPA. He is also a professor of finance at Bryant University.

