14TH INTERNATIONAL CONFERENCE ON CLIMATE CHANGE

THE GREAT RESET:

CLIMATE REALISM *vs.* CLIMATE SOCIALISM

THE HEARTLAND INSTITUTE

CONFERENCE PROGRAM

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Welcome to the Fourteenth International Conference on Climate Change!

JAMES M. TAYLOR

It has been two years since The Heartland Institute hosted its Thirteenth International Conference on Climate Change, and the world is a much different place. A deadly virus, likely unleashed from a Chinese laboratory, has killed millions worldwide. Heavy-handed governments have used the COVID pandemic to impose stifling restrictions on our basic freedoms. The World Economic Forum has launched a "Great Reset of Capitalism" agenda that mirrors the language and structure of Vladimir Lenin's "State Capitalism." The socialist Secretary-General of the United Nations claims climate change requires a massive global redistribution of wealth and more permanent restrictions on individual freedom.

In the face of these assaults, there is still hope. Despite a climate-alarmist Democrat in the White House and Democratic majorities in the U.S. House and Senate, Congress has failed to pass any far-reaching legislation furthering the mythical climate crisis. Polling shows only one-third of Americans are very concerned about climate change – which is the same percentage as those who are not concerned at all. Polling also shows a majority of Americans would not even pay $10 per month to reduce carbon dioxide emissions.

Even better, we are likely going to experience a wave election just 12 months from now that will sweep climate alarmists out of their current seats of power. Internationally, governments in Central and Eastern Europe are pushing back more strongly every day against the United Nations' Climate Delusion.

As we fight for truth, ICCC-14 will present the most current, compelling, and unfiltered scientific evidence supporting a realistic assessment of climate science. In addition to the science, prominent experts will present cutting-edge economic and public policy insights regarding climate-related topics.

Sound science does not justify a forced transition to higher-priced, less reliable, foreign-supplied energy sources. Sound science does not justify the heavily funded climate bureaucracy gaining power in the U.S. and throughout the world. Sound science does not justify suppressing the voices that convey the good news about our benign and improving climate.

Truth dies in the darkness of censored and suppressed debate. Unlike the climate establishment, we welcome public discourse because we know the scientific evidence supports Climate Realism. We welcome you to ICCC-114, and we invite you to participate in this open, fair, and transparent discussion of climate science, economics, and policy.

Sincerely,

James M. Taylor
President
The Heartland Institute

Conference Sessions and Schedule

FRIDAY, OCTOBER 15, 2021

4:00 – 8:00 PM — **Registration and Opening Night Dinner**
John Coleman Ballroom (Milano)

5:00 – 5:30 PM — **Opening Remarks**
SPEAKER: James Taylor

5:30 – 6:15 PM — **Dinner**

6:15 – 6:30 PM — **Frederick Seitz Memorial Award**
PRESENTERS: Ken Haapala and Tom Sheahen, Science and Environmental Policy Project (SEPP)
AWARD RECIPIENT: David R. Legates, Ph.D.

6:30 – 7:00 PM — **Keynote Presentation**
David R. Legates, Ph.D.

7:00 – 7:15 PM — **Climate at a Glance Teachers Manual Project**
SPEAKER: Anthony Watts

7:15 – 7:40 PM — **Climate and The Great Reset**
SPEAKER: Justin T. Haskins

7:40 – 8:00 PM — **Closing Remarks**
SPEAKERS: Joseph Morris
James Taylor

SATURDAY, OCTOBER 16, 2021

7:30 – 9:30 AM — **Registration and Breakfast Keynotes**
John Coleman Ballroom (Milano)

8:00 – 8:15 AM — **Morning Remarks**
SPEAKER: James Taylor

8:15 – 8:45 AM — **Keynote Address: Climate Models vs. Reality**
SPEAKER: Patrick Michaels

8:45 – 9:30 AM — **Plenary Panel: The Failure of Green Energy in Europe**
MODERATOR: James Taylor
SPEAKERS: Holger Thuss, Ph.D.
Wolfgang Müller

Conference Sessions and Schedule

9:30 – 9:45 AM **Break**

9:45 – 11:15 AM **Science Track, Panel 1A: Temperature Trends**
S. Fred Singer Room (Octavius)
MODERATOR: H. Sterling Burnett, Ph.D.
SPEAKERS: Anthony Watts
Ross McKitrick, Ph.D.
Roy Spencer, Ph.D.

9:45 – 11:15 AM **Policy Track, Panel 1B: Senseless Energy Policy and Grassroots Opposition**
Joseph Bast Room (Octavius)
MODERATOR: Tim Benson
SPEAKERS: Kevin Dayaratna, Ph.D.
E. Calvin Beisner, Ph.D.
Anne Jordan

11:15 – 11:30 AM **Break**

11:30 AM – 1:00 PM **Science Track, Panel 2A: The IPCC and the Scientific Method**
S. Fred Singer Room (Octavius)
MODERATOR: Tom Sheahen
SPEAKERS: Ken Haapala
David R. Legates, Ph.D.
Howard "Cork" Hayden, Ph.D.

11:30 AM – 1:00 PM **Policy Track, Panel 2B: Dubious Assumptions in Pursuit of Dubious Policies**
Joseph Bast Room (Octavius)
MODERATOR: S. T. Karnick
SPEAKERS: Benjamin Zycher, Ph.D.
Kenneth Green, Ph.D.
Myron Ebell

1:00 – 1:15 PM **Break**

1:15 – 2:45 PM **Lunch and Keynote Address**
John Coleman Ballroom (Milano)

1:45 – 2:25 PM **Keynote Address: Nobel Lies**
SPEAKER: Will Happer

2:25 – 2:45 PM ***Climate Hustle 2* Movie Trailer**
Craig Rucker and Marc Morano

Conference Sessions and Schedule

2:45 – 3:00 PM **Break**

3:00 – 4:30 PM **Science Track, Panel 3A: The Right Climate Stuff: Texas Freeze, Nuclear Energy, and The Path Forward**
S. Fred Singer Room (Octavius)
MODERATOR: Jim Peacock
SPEAKERS: Tom Moser
Greg Goodnight
Bob Bauman

3:00 – 4:30 PM **Policy Track, Panel 3B: How to Oppose Woke Capital, Activist Investors, and Financial Regulators Efforts to Cancel Traditional Energy**
Joseph Bast Room (Octavius)
MODERATOR: Craig Rucker
SPEAKERS: Justin Danhof
Stephen Soukup, Scott Shepard

4:30 – 4:45 PM **Break**

4:45 – 6:15 PM **Science Track, Panel 4A: Natural Climate Forcings**
S. Fred Singer Room (Octavius)
MODERATOR: H. Sterling Burnett, Ph.D.
SPEAKERS: Willie Soon, Ph.D.
Gregory Wrightstone, Jay Lehr, Ph.D.

4:45 – 6:15 PM **Policy Track, Panel 4B: Examining Biden's Energy and Climate Agenda**
Joseph Bast Room (Octavius)
MODERATOR: Tim Benson
SPEAKERS: Amy Oliver Cooke
Bette Grande
Steve Milloy

6:15 – 6:30 PM **Pre-Dinner Cocktails**

6:30 – 8:30 PM **Dinner**
John Coleman Ballroom (Milano)

7:00 – 7:30 PM **Dauntless Purveyor of Climate Truth Award**
PRESENTER: Craig Rucker, CFACT
AWARD RECIPIENT: (*surprise*)

7:30 – 8:15 PM **Dinner Keynote Address**
INTRODUCTION: Jim Lakely
KEYNOTE ADDRESS: Patrick Moore, Ph.D.

Conference Sessions and Schedule

8:15 – 8:30 PM — **Closing Remarks**
SPEAKERS: James Taylor
Joseph Morris

SUNDAY, OCTOBER 17, 2021

7:30 – 9:00 AM — **Registration and Breakfast Keynotes**
John Coleman Ballroom (Milano)

8:00 – 8:40 AM — **Breakfast Keynote Address**
INTRODUCTION: James Taylor
KEYNOTE ADDRESS: Joe Bastardi

8:45 – 9:00 AM — **Featured Breakfast Speaker**
INTRODUCTION: James Taylor
SPEAKER: Naomi Seibt

9:00 – 9:15 AM — **Break**

9:15 – 10:45 AM — **Science Track, Panel 5A**
S. Fred Singer Room (Octavius)
MODERATOR: Bette Grande
SPEAKERS: Steve Milloy
H. Sterling Burnett, Ph.D.
Marc Morano

9:15 – 10:45 AM — **Policy Track, Panel 5B: Reliable Energy, Unreliable Energy, and Energy Poverty**
Joseph Bast Ballroom (Octavius)
MODERATOR: S.T. Karnick
SPEAKERS: Oliver Hemmers, Ph.D.
Wolfgang Müller
Derrick Hollie

10:45 – 11:00 AM — **Break**

11:00 AM – 12:30 PM — **Science Track, Panel 6A: The Truth About Extreme Weather**
S. Fred Singer Room (Octavius)
MODERATOR: Anthony Watts
SPEAKERS: James Taylor
Neil Frank, Ph.D.
Stanley B. Goldenberg

Conference Sessions and Schedule

11:00 AM – 12:30 PM	**Policy Track, Panel 6B: Bad Energy Policy in the US, Worse Energy Policy in Europe** Joseph Bast Room (Octavius) **MODERATOR:** Craig Rucker **SPEAKERS:** Benjamin Zycher, Ph.D. Holger Thuss, Ph.D. Rob Bradley
12:30 – 12:45 PM	**Break**
12:45 – 2:00 PM	**Lunch and Keynote Address** John Coleman Ballroom (Milano)
1:15 – 1:50 PM	**Lunch Keynote Address** **INTRODUCTION:** James Taylor **KEYNOTE ADDRESS:** Lord Christopher Monckton
1:50 – 2:00 PM	**Closing Remarks** **SPEAKER:** James Taylor
2:00 – 3:30 PM	**Break** (attendees make way to Paris Hotel, the Vendome Room)
3:30 – 6:00 PM	**Movie Screening: *Climate Hustle 2: Rise of the Climate Monarchy*** Vendome Room, Paris Hotel **INTRODUCTION:** Craig Rucker and Marc Morano **POST-FILM Q&A:** Craig Rucker Marc Morano James Taylor Willie Soon, Ph.D.
6:00 PM	**Conference Ends**

Conference Cosponsors

Science and Environmental Policy Project
sepp.org

Tale of Two Climates (book)
twoclimates.com

National Center for Public Policy Research
nationalcenter.org

Committee for a Constructive Tomorrow
cfact.org

Competitive Enterprise Institute
cei.org

CO2 Coalition
co2coalition.org

The Right Climate Stuff Research Team
therightclimatestuff.com

Cornwall Alliance For the Stewardship of Creation
cornwallalliance.org

Reality News
realitynewsmedia.com

Junk Science
junkscience.com

European Institute for Climate and Energy
eike-klima-energie.eu

Conference Speakers

Joe Bastardi
Joe Bastardi is an institution in the science of weather prediction and is co-chief meteorologist at WeatherBell. Many companies across a multitude of industries are profiting from his forecasts. His exceptional skills are rooted in a comprehensive understanding of global oscillations and in-depth analysis of historical weather patterns. Mr. Bastardi's analog approach, which finds similarities between current and historical weather patterns, allows him to make an accurate forecast, sometimes in defiance of computer model consensus. Mr. Bastardi graduated from Pennsylvania State University and holds a Bachelor's Degree in Meteorology. He is one of the world's most-knowledgeable people on the history and behavior of hurricanes.

Robert M. Bauman
Robert M. Bauman is president and CEO of Trusted Systems, Inc. Bauman's career spans 50 years in the computer and security industries. He earned a BS in mechanical engineering from the University of Wisconsin in 1969 and started with GE as a programmer and sales engineer in process computers. Bauman developed a product line at his company to include EMP-hardened shelters to shield electronics from this form of attack. His expertise in the energy industry and acumen for engineering-based solutions was recognized in the aftermath of the Fukushima disaster, where he was called on as a technical advisor to senior leaders from Japan to explore explosion proof alternatives.

E. Calvin Beisner, Ph.D.
E. Calvin Beisner is founder and national spokesman of the Cornwall Alliance for the Stewardship of Creation. Beisner is an interdisciplinary scholar specializing in the application of Biblical world view, theology, and ethics to economics, environmental stewardship, political philosophy, public policy, and apologetics. The Cornwall Alliance is a network of theologians, pastors, other ministry leaders, scientists, economists, and other scholars, committed to applying Biblical principles to the twin challenges of economic development for the very poor around the world and wise Earth stewardship. Beisner has testified as an expert witness on the theology, ethics, science, and economics of climate change policy before Congress.

Tim Benson
Tim Benson is a senior policy analyst in the Government Relations Department at The Heartland Institute. He is also the host of the Heartland Institute Podcast *Ill Literacy: Books with Benson*. Benson's responsibilities include interacting with elected officials and staff on a variety of issues, with an emphasis on energy policy and education. He tracks state legislative trends and drafts responses to emerging issues with the goal of educating legislators and informing them about free-market solutions. He has also provided in-person and written legislative testimony in several states. Benson's written opinion and analysis regularly appear in major publications.

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Robert L. Bradley
Robert L. Bradley Jr. is the CEO and founder of the Institute for Energy Research; senior fellow at the American Institute for Economic Research (AIER); and Energy and Climate Change Fellow at the Institute of Economic Affairs in London. He has held honorary positions at the University of Houston and the University of Texas at Austin. Bradley is author of eight books and numerous articles. He blogs at MasterResource.org. He is currently working on his next book, *Energy Crisis and Leviathan*, surveying the history of U.S. policies during World War I, the New Deal, World War II, Korean War, the 1970s, and other "emergency" episodes.

H. Sterling Burnett, Ph.D.
H. Sterling Burnett, Ph.D., is a Heartland senior fellow on environmental policy and managing editor of *Environment & Climate News*. Prior to joining The Heartland Institute in 2014, he worked at the National Center for Policy Analysis for 18 years, ending his tenure there as senior fellow in environmental policy. He has held various positions in professional and public policy organizations, including serving as a member of the Environment and Natural Resources Task Force in the Texas Comptroller's e-Texas commission.

Amy Oliver Cooke
Amy Oliver Cooke is the CEO of the John Locke Foundation in North Carolina. Amy leads a team of nearly two dozen researchers, writers, and outreach professionals who provide nonpartisan public policy analysis to lawmakers, elected and appointed officials, and news media. She also serves as publisher of *Carolina Journal*. Across its print, online, and broadcast platforms, the *Carolina Journal* franchise reaches more than one million people each month. Before taking over the leadership of the John Locke Foundation in January 2020, she was the long-time executive vice president and director of the Energy and Environmental Policy Center for the Independence Institute in Colorado.

Justin Danhof
Justin Danhof is executive vice president of the National Center for Public Policy Research. Previously, he served as the National Center's general counsel, as well as director of the center's Free Enterprise Project (FEP). FEP is the conservative movement's only full-service shareholder activism and education program. FEP files shareholder resolutions, engages corporate CEOs and board members at shareholder meetings, and sponsors effective media campaigns to create the incentives for corporations to stay focused on their mission of creating shareholder value for investors. Danhof has participated in more than 200 shareholder meetings to advance conservative ideals and blunt corporate wokeness.

Kevin D. Dayaratna, Ph.D.
Kevin D. Dayaratna is senior statistician and research programmer in The Heritage Foundation's Center for Data Analysis. An applied statistician, Dayaratna has

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researched and published on the use of high-powered statistical models in public policy, medical outcomes, business, economics, and even professional sports.

Myron Ebell
Myron Ebell is director of the Competitive Enterprise Institute's Center for Energy and Environment, which is one of the most-effective advocates for free-market environmentalism. The leader of the Trump Presidential Transition's agency action team for EPA, Ebell chairs the Cooler Heads Coalition – an ad hoc coalition of more than two dozen non-profit groups, including The Heartland Institute, that led the successful decades-long fight to defeat cap-and-trade legislation and more recently led the effort to convince President Trump to withdraw from the Paris Climate Accords. Heartland awarded Ebell the Speaks Truth to Power Award at the 12th International Conference on Climate Change in 2017.

Neil L. Frank, Ph.D.
Neil L. Frank is a veteran atmospheric scientist and a member of the CO2 Coalition. Dr. Frank was director of the National Hurricane Center from 1974 to 1987 — the longest-serving director in the agency's history — and chief meteorologist of KHOU-TV, the CBS affiliate in Houston, Texas from 1987 to 2007. Frank received a bachelor's degree in chemistry at Southwestern College in Winfield, Kansas, and earned his master's and Ph.D. degrees in meteorology at Florida State University. Frank served as chairman for the World Meteorological Organization's Hurricane Committee for North and Central America from 1976 to 1987.

Stanley B. Goldenberg
Stanley B. Goldenberg is a hurricane research meteorologist. His hurricane-related research has included developing and implementing significant improvements to some of the numerical hurricane prediction models. In addition, he has examined the various climatic factors that influence the variability of hurricane activity in the Atlantic. In particular, he has done extensive research into the physical mechanisms responsible for the connection between El Niño and Atlantic hurricane activity. Goldenberg has participated in research flights into nearly 20 hurricanes. His interest and experience in hurricane disaster preparedness was greatly increased when his home was destroyed as his family experienced the full force of Hurricane Andrew in 1992.

Gregg Goodnight
Gregg Goodnight is a retired engineer with more than 45 years of industry experience. His current focus is on all aspects of climate change including public policy analysis. He is a member of The Right Climate Stuff and the CO2 Coalition. As a practicing engineer, his professional experience included research and development for DuPont; start-up and operations of biochemicals and agricultural chemical production; leadership of technical support operations; and consulting in the area of inorganic chemicals. Goodnight has a bachelor's degree in chemical

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engineering from the University of Texas at Austin, and a master's degree in chemical engineering from the University of Pennsylvania.

Bette Grande
Bette Grande is a government relations manager for energy issues at The Heartland Institute. Prior to coming to Heartland, she served as a North Dakota state representative from 1996–2014, representing the 41st district. As a North Dakota lawmaker, she served as chairman of the Employee Benefits Programs Committee and as a member of the House Appropriations Committee and the Education and Environment Division. Grande has also served as chair of the energy division of the American Legislative Exchange Council's Energy, Environment and Agriculture Task Force, energy committee member of the Council of State Governments, and member of the National Conference of State Legislatures.

Kenneth P. Green, Ph.D.
Kenneth P. Green received his doctorate in environmental science and engineering from UCLA, a master's degree in molecular genetics from San Diego State University, and a bachelor's degree in biology from UCLA. He has used his expertise for 25 years at public policy research institutions throughout North America, including the American Enterprise Institute, the Reason Foundation, and the Fraser Institute in Canada. His list of publications includes policy studies, magazine articles, opinion columns, book and encyclopedia chapters, and two supplementary textbooks on climate change and energy policy intended for middle-school and collegiate audiences, respectively.

Kenneth Haapala
Kenneth Haapala is president of the Science and Environmental Policy Project (SEPP), compiler of *The Week That Was* newsletter, and a contributor to the reports of the Nongovernmental International Panel on Climate Change. He is an energy and economics modeler and past president of the oldest science society in Washington. Trained as a quantitative economist, Haapala has created and analyzed a diverse array of numerical models. For example, in 1977, he reported how government energy models used to predict that the world would run out of oil and the United States out of natural gas by the end of the 20th century were inappropriate for the task, and why.

William Happer, Ph.D.
William Happer, professor emeritus in the Department of Physics at Princeton University, is a specialist in modern optics, optical and radiofrequency spectroscopy of atoms and molecules, radiation propagation in the atmosphere, and spin-polarized atoms and nuclei. Happer began his academic career in 1964 at the Columbia University Radiation Laboratory, including as director from 1976 to 1979. In 1980, he joined the faculty of Princeton University. From 1991 to 1993, Happer was Director of Energy Research at the U.S. Department of Energy, overseeing a research budget of $3 billion. From 2003 until his retirement in 2014, Happer

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held the Cyrus Fogg Brackett Chair of Physics at Princeton. He is a founding board member of the CO2 Coalition.

Justin T. Haskins
Justin T. Haskins is the editorial director and a research fellow at The Heartland Institute. He is a widely published writer and political commentator and is also the editor-in-chief of StoppingSocialism.com, one of the world's largest and most influential publications devoted to challenging socialism. Haskins writes a column for FoxNews.com, serves as a contributor to *The Hill* and *Townhall*, and has appeared on television and radio more than 180 times, on shows including *Tucker Carlson Tonight*, *Fox & Friends*, and *The Glenn Beck Program*. Haskins is the author of the Amazon best-selling book *Socialism Is Evil* (2018), and served as the first contributor to Glenn Beck's *Arguing with Socialists* (2020), a *New York Times* best-selling book.

Howard Hayden, Ph.D.
Howard Hayden, professor of physics emeritus in the Physics Department of the University of Connecticut, is editor of *The Energy Advocate*, a monthly newsletter promoting energy and technology. A Colorado native, Hayden earned his bachelor's, master's and Ph.D. degrees at the University of Denver. He went to the University of Connecticut, where he spent 32 years teaching and performing research. Hayden performed accelerator-based atomic physics, including measurements of cross-sections for various processes, measurements of energy loss in atomic collisions and of lifetimes of excited states, beam-foil spectroscopy, and ion implantation. He also conducted a Trouton-Noble experiment that was 105 times as sensitive as the original.

Oliver Hemmers, Ph.D.
Oliver Hemmers received his Ph.D. in physics in 1993 from the Technical University in Berlin, Germany, with specialization in X-ray atomic and molecular spectroscopy. His specialties are data analysis and interpretation as applied to atomic physics and climate change. From 2008 until 2013, Hemmers led UNLV's Harry Reid Center to meet the demands of interdisciplinary research across campus. He is a member of the American Physical Society and a reviewer for the American Institute of Physics and the Institute of Physics, among others. Hemmers has given some 200 presentations at national and international meetings, published approximately 90 research articles, written one book, and holds one patent.

Derrick Hollie
Derrick Hollie is president of Reaching America, a 501(c)(4) organization developed to address complex social issues impacting African American communities today. These issues include energy poverty, justice reform, K-12 education, occupational licensing, and free speech. Hollie has written op-eds, blogs, and often participates in speaking engagements, as well as radio and television interviews. He is a contributor to *The Daily Signal* and executive producer of the *Reaching America on Demand*

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with Derrick Hollie weekly podcast. His alma mater, East Tennessee State University, awarded him their prestigious Alumni Award of Honor in 2007. He was only the second African American male to receive such an honor at that time.

Anne Jordan
Anne Jordan is vice president for Canada Health Alliance. With 21 years as a BScN RN, steeped in union culture, she began to question her environment and began leaning into political activity four years ago. Marc Morano's *Climate Hustle* Canadian premiere showings were brokered with her help. She was then recruited to assist four historic consecutive campaigns over three years, uniting two parties to become the second largest party in the country, then electing a premier who is recognized as at the forefront of championing for the energy sector throughout the country.

S.T. Karnick
S.T. Karnick is a senior fellow and director of publications for The Heartland Institute, where he serves as executive editor of the organization's public policy newspapers and the *Heartland Daily News* website. Previously, he served as director of publications for the Hudson Institute, where he was co-founder and editor-in-chief of *American Outlook*. Karnick has written several hundred articles for the country's largest and most-influential publications, websites, and academic journals. A pioneer of modern right-of-center criticism of popular culture, Karnick served for twelve years as editor of The American Culture, which provided news and analysis about cultural, social, and political trends.

Jim Lakely
Jim Lakely is vice president and director of communications at The Heartland Institute. He directs all media and public communications for Heartland and organizes its major climate and energy conferences. Prior to joining Heartland in 2008, he spent 16 years as a newspaperman and covered Capitol Hill and the George W. Bush administration for *The Washington Times*. Lakely has appeared on C-SPAN, Fox News, MSNBC, CNN, and many national and local television and radio news programs. Lakely led Heartland's 2015 trip to Rome to bring climate realism to Pope Francis and the United Nations at COP-21 in Paris.

David R. Legates, Ph.D.
David R. Legates is professor of climatology in the Department of Geography and Spatial Sciences at the University of Delaware and an adjunct professor in the university's Department of Applied Economics & Statistics. Dr. Legates has argued for the necessity of technological progress in precipitation measurement used for validating climate change scenarios and for validation of existing data used for that purpose. Dr. Legates co-developed methods to correct bias in gauge-measured precipitation data for wind and temperature effects, with direct applicability in climate change, hydrology, and environmental impact studies. He is receiving the Frederick Seitz Memorial Award from the Science and Environmental Policy Project (SEPP) at this conference.

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Jay Lehr, Ph.D.
Jay Lehr is a senior policy analyst at the International Climate Science Coalition and the former science director at The Heartland Institute. Lehr is an internationally renowned speaker, scientist, and author who has testified before Congress on dozens of occasions on environmental issues and consulted with nearly every agency of the national government, as well as many foreign countries. After graduating from Princeton University at the age of 20 with a degree in geological engineering, he went on to receive the nation's first Ph.D. in groundwater hydrology from the University of Arizona. Lehr later became executive director of the National Association of Groundwater Scientists and Engineers.

Ross McKitrick, Ph.D.
Ross McKitrick holds a bachelor's degree in economics from Queen's University, and a master's degree and Ph.D. in economics from the University of British Columbia. He was appointed assistant professor in the Department of Economics at the University of Guelph in 1996, associate professor in 2001, and full professor in 2009. In 2012, he was appointed CBE Fellow in Sustainable Commerce. His area of specialization is environmental economics and policy analysis. His research areas include the relationship between economic growth and pollution emissions; regulatory mechanism design; and numerous aspects of the science and policy of global warming.

Patrick J. Michaels, Ph.D.
Patrick J. Michaels is senior fellow at the CO2 Coalition and the Competitive Enterprise Institute. He is a past president of the American Association of State Climatologists and a former program chair for the Committee on Applied Climatology of the American Meteorological Society and a research professor of environmental sciences at University of Virginia, where he worked for 30 years. Michaels was a contributing author to and is a reviewer of the United Nations' Intergovernmental Panel on Climate Change. His writing has been published in *Climate Research, Climatic Change, Geophysical Research Letters, Journal of Climate, Nature*, and *Science*, as well as in popular serials worldwide. He is the author or editor of six books on climate and its impact.

Steve Milloy
Steve Milloy is a recognized leader in the fight against junk science with more than 25 years of accomplishment and experience. He is also a policy advisor and a member of the Board of Directors at The Heartland Institute. Credited with popularizing the term "junk science," Milloy is the founder and publisher of JunkScience.com and, from 2000 to 2009, wrote the popular "Junk Science" column for FOXNews.com. He is an expert on energy, environmental and public health issues, a public affairs consultant, author, TV/radio commentator, and public speaker. Milloy was trained in natural sciences, biostatistics, law, and securities regulation. He is also a

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member of the Board of Directors at The Heartland Institute.

Lord Christopher Monckton
Lord Christopher Monckton, Third Viscount Monckton of Brenchley, is chief policy advisor to the Science and Public Policy Institute. He has held positions with the British press and in government, as a press officer at the Conservative Central Office, and as Prime Minister Margaret Thatcher's policy advisor from 1982 to 1986. His work has been published in *Science Bulletin, Energy and Environment, Coordinates, Journal of the Marine Navigation Industry, Science and Education, UK Quarterly Economic Bulletin, Physics and Society,* and *AIG News*. For his work on the climate, Monckton has been presented with numerous honors, including the Meese-Noble Award for Freedom, the Valiant-for-Truth Award from CFACT, the Santhigiri Ashram Award, and the Intelligence Medal of the Army of Colombia.

Patrick Moore, Ph.D.
Patrick Moore is a director of the CO2 Coalition and a senior fellow at The Heartland Institute. A co-founder of Greenpeace, Moore has been a leader in the international environmental field for more than 40 years. He served for nine years as president of Greenpeace Canada and seven years as a director of Greenpeace International. Moore was a driving force shaping policy and direction for 15 years while Greenpeace became the world's largest environmental activist organization. In recent years, Moore has been focused on the promotion of sustainability and consensus building among competing concerns. He is the author of *Confessions of a Greenpeace Dropout – The Making of a Sensible Environmentalist*, among others.

Marc Morano
Marc Morano, the award-winning producer and writer of the films *Climate Hustle* (2016) and *Climate Hustle 2: Rise of the Climate Royalty* (2020) is one of the highest profile voices of climate realism in the world today. He currently serves as executive editor and chief correspondent for CFACT's award-winning ClimateDepot.com, a news and information service he founded in 2009. Morano is also the author of the best-selling books, *Green Fraud: Why the Green New Deal Is Even Worse than You Think* (2021) and *The Politically Incorrect Guide to Climate Change* (2018).

Joseph A. Morris, J.D.
Joseph A. Morris is chairman of the Board of Directors at The Heartland Institute. He is a partner in the law firm of Morris & De La Rosa, with offices in Chicago and London. Morris maintains an active practice conducting trials and appeals in the areas of constitutional, business, labor and international law. He is a member of the Bars of the Supreme Court of the United States, the Supreme Court of Illinois, and several other courts. He served under President Reagan as Assistant Attorney General of the United States and Director of the Department of Justice Office of Liaison Services.

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Tom Moser
Tom Moser has 50 years of management and leadership experience in the aerospace public and private business sectors. Moser was a senior executive at NASA having served as acting associate administrator for spaceflight, director of the Space Station Program, deputy manager of the Space Shuttle Orbiter, and chief engineer at the Johnson Space Center. He served as vice president of business development for several large aerospace companies and executive director of the Texas Aerospace Commission. Moser has a bachelor's degree in mechanical engineering from the University of Texas at Austin, a master's degree in mechanical engineering from the University of Pennsylvania, and conducted doctoral studies at Rice University.

Wolfgang Müller
Wolfgang Müller is general secretary of the European Institute for Climate and Energy, Germany's leading think tank for climate and energy policies. Previously, he worked for the Friedrich Naumann Foundation in Germany and abroad as country representative in Zimbabwe, and project director of the Economic Project in Southern Africa.

James Peacock
James M. Peacock is the chairman of The Right Climate Stuff (TRCS) research team. The Right Climate Stuff research team is a voluntary group composed primarily of retired NASA Apollo Program veterans. Peacock was instrumental in assisting Harold Doiron, the first chairman, in the formation of the group in September 2011 at Johnson Space Center, Houston, Texas. He became acting chairman when the late Dr. Doiron stepped down in 2019. Peacock began his 21-year career as a design engineer at Johnson Space Center in July 1962. His assignments during the Apollo Program included leadership positions for design responsibility of several systems in the Command Module.

Benny Peiser, Ph.D.
Benny Peiser is the director of the Global Warming Policy Forum (GWPF), one of the world's leading climate policy think tanks. GWPF is based in London. Peiser is a social scientist and has written extensively on climate alarmism and international climate policy. A 10km-wide asteroid, Minor Planet (7107) Peiser, was named in his honor by the International Astronomical Union.

Craig Rucker
Craig Rucker is a co-founder and president of CFACT, a free market think tank based in Washington, DC devoted to sound science for both people and planet. CFACT is a main co-sponsor of this event and co-publisher (along with The Heartland Institute) of *Environment & Climate News*. In 1985, CFACT was founded to promote a much-needed, positive alternative voice on issues of environment and development. Its co-founders, David Rothbard and Craig Rucker, strongly believed the power of the market combined with the applications of safe technologies could offer humanity practical solutions to many of the world's most pressing concerns.

Conference Speakers

Naomi Seibt
Naomi Seibt is the founder of the Naomi Seibt Institute, whose mission is to inspire skepticism in the field of science and socio-economic issues. She was an accelerated student and has a background in science and psychology. Seibt received a degree in business administration. She went to St. Mauritz School and won first place in the youth competition research in physics. Naomi graduated from high school at the age of 16 in 2017. She spoke at Heartland's "counter conference" at COP25 in Madrid in 2019 and was a featured speaker at CPAC 2020 in Washington, DC, earning global media attention and a growing online audience.

Thomas P. Sheahen, Ph.D.
Tom Sheahen is chairman of the Science and Environment Policy Project, director of the Institute for Theological Encounter with Science and Technology, and president/CEO of Western Technology, Inc., an independent consulting firm specializing in energy technology issues with business implications. From 2005 to 2009, Dr. Sheahen served as senior analyst in the Systems Integration Office of the National Renewable Energy Laboratory. Sheahen is author of Introduction to *High Temperature Superconductivity* (Plenum Press: 1994). His research papers have appeared in many peer-reviewed science journals including *Physical Review, Applied Optics, Journal of Technology Transfer, Reviews of Modern Physics*, and *The Science Teacher*.

Scott Shepard, J.D.
Scott Shepard is a fellow at the National Center for Public Policy Research, as well as the director of the National Center's Free Enterprise Project, the conservative movement's only full-service shareholder activism and education program. Shepard has taught at the Wake Forest School of Law in North Carolina and the Willamette University College of Law in Oregon. He is the author of the legal textbook *Wills, Trusts and Estates in Contex*t. He previously served as a policy director with the Yankee Institute in Connecticut and was manager of the Water Law Project at the Pacific Legal Institute. He also has experience in government and private practice.

Willie Soon, Ph.D.
Willie Soon is both an astrophysicist and a geoscientist based in Cambridge, Massachusetts. He is the receiving editor in the area of solar and stellar physics for the journal *New Astronomy*. He writes and lectures professionally and publicly on important issues related to the Sun, other stars, and the Earth – as well as general science topics in astronomy and physics. He is the author of *The Maunder Minimum and the Variable Sun-Earth Connection*. Soon was recognized with an award for detailed scholarship on biogeological and climatic change over the past 1,000 years by the Smithsonian Institution.

Stephen R. Soukup
Stephen R. Soukup is the senior commentator, vice president, and publisher of *The Political Forum*, an "independent research

Conference Speakers

provider" that delivers research and consulting services to the institutional investment community, with an emphasis on economic, social, political, and geopolitical events likely to have an impact on the financial markets in the United States and abroad. He is also the director of The Political Forum Institute, a non-profit educational organization dedicated to creating and preserving community, primarily among those who earn their livings and create wealth for the nation through the capital markets.

Roy W. Spencer, Ph.D.
Roy W. Spencer is a principal research scientist for the University of Alabama in Huntsville and the U.S. Science Team Leader for the Advanced Microwave Scanning Radiometer on NASA's Aqua satellite. He was a Senior Scientist for Climate Studies at NASA's Marshall Space Flight Center, where he and John Christy, Ph.D., received NASA's Exceptional Scientific Achievement Medal for their global temperature monitoring work with satellites. He has provided congressional testimony several times on the subject of global warming. Spencer's first of several popular books on global warming was titled *Climate Confusion* (2010).

James Taylor, J.D.
James Taylor is president of The Heartland Institute and the host of this conference. He is the director of Heartland's Arthur B. Robinson Center on Climate and Environmental Policy and a former managing editor of Heartland's *Environment & Climate News*. He has presented energy and environment analysis on every major broadcast and print media outlet in America. He has been a featured presenter at conferences sponsored by the National Conference of State Legislatures, American Legislative Exchange Council, Council of State Governments, National Association of Counties, National Foundation of Women Legislators, and the European Institute for Climate and Energy.

Holger J. Thuss, Ph.D.
Holger J. Thuss, Ph.D., is the founder and president of the European Institute for Climate and Energy (EIKE) in Germany. EIKE is an association of a growing number of academics, economists, engineers, journalists and politicians who regard the assertion of "man-made climate change" as not scientifically sound and therefore as a fraud against the population. EIKE, therefore, rejects any "climate policy" as an excuse to patronize the economy and the population and burden the people with taxes. Thuss grew up in East Germany under communist rule.

Anthony Watts
Anthony Watts is a senior fellow for environment and climate at The Heartland Institute. Watts has been in the weather business both in front of, and behind the camera as an on-air television meteorologist since 1978, and currently does daily radio forecasts. He has created weather graphics presentation systems for television, specialized weather instrumentation, as well as co-authored peer-reviewed papers on climate issues. He operates the most viewed website in the world on climate, the award-winning website wattsupwiththat.com.

Conference Speakers

Gregory Wrightstone
Gregory Wrightstone is the executive director of the CO2 Coalition. He is a geologist with more than 40 years of experience researching various aspects of the Earth's processes. He earned a bachelor's degree from Waynesburg University and a master's degree from West Virginia University, both in the field of geology. He has been accepted as an expert reviewer for the Intergovernmental Panel on Climate Change (AR6). Wrightstone is the author of the bestselling book *Inconvenient Facts – the science that Al Gore doesn't want you to know*. His statement on energy, climate, and humanity: "We should use all of the Earth's resources for the betterment of mankind and do it as good stewards."

Benjamin Zycher, Ph.D.
Benjamin Zycher is a senior fellow at the American Enterprise Institute (AEI), where he works on energy and environmental policy. He is also a senior fellow at the Pacific Research Institute. Before joining AEI, Zycher was an intelligence community associate of the Office of Economic Analysis, Bureau of Intelligence and Research, U.S. Department of State. He is a former senior economist at the RAND Corporation, a former adjunct professor of economics at UCLA and at the California State University Channel Islands, and is a former senior economist at the Jet Propulsion Laboratory. He served as a senior staff economist for the President's Council of Economic Advisers, with responsibility for energy and environmental policy issues.

Congratulations to Our Award Winners

Many scientists, economists, and policy experts have worked for decades fighting the politicization and misinterpretation of climate science and the perpetuation of climate alarmism. They've taken risks, both to their personal safety and to their professional careers, simply by speaking truth to power.

The Climate Change Awards were started in 2014 as a way to recognize individuals of extraordinary ability and unflagging commitment to restoring sound science and common sense to the debate over global warming. These awards deliver long-overdue recognition and encouragement to their recipients.

The awards, earned by 23 previous recipients, also serve to increase public awareness of the global warming realism movement and send a signal to the academy and other elite institutions saying if they won't recognize these genuine heroes, then we will!

The distinguished fraternity of past winners includes S. Fred Singer, Will Happer, Richard Lindzen, Willie Soon, Patrick Michaels, Anthony Watts, Christopher Monckton, Apollo 8 Astronaut Walt Cunningham, Jay Lehr, Myron Ebell, and Patrick Moore – many of whom are attending this conference.

2021 Award Winners

2021 Frederick Seitz
Memorial Award
Presented to
David R. Legates
Presented by
The Science and
Environmental Policy Project

2021 Winner of the Dauntless
Purveryor of Climate Truth Award
Presented to
???? ??????
Presented by
CFACT

CONGRATULATIONS!

David R. Legates

Winner of the 2021 Frederick Seitz Memorial Award

Presented by the Science and Environmental Policy Project

David R. Legates, Ph.D., is professor of climatology in the Department of Geography and Spatial Sciences at the University of Delaware and an adjunct professor in the university's Department of Applied Economics & Statistics. Dr. Legates has argued for the necessity of technological progress in precipitation measurement used for validating climate change scenarios and for validation of existing data used for that purpose.

Dr. Legates co-developed methods to correct bias in gauge-measured precipitation data for wind and temperature effects, with direct applicability in climate change, hydrology, and environmental impact studies. He also developed a calibration method that validates NEXRAD radar precipitation data with gauge measurements to improve the accuracy of precipitation estimates. He is the founder and developer of the Delaware Environmental Observing System, a state-of-the-art meteorological observing network that covers the State of Delaware and surrounding counties.

Dr. Legates has earned certified consulting meteorologist status from the American Meteorological Society and in 1999 was awarded the Boeing Autometric Award for submitting the best paper in image analysis and interpretation. In 2019, he was awarded first place in the International Statistical Institute's paper competition in Kuala Lumpur, Malaysia. Currently, he serves on the President's Committee on the National Medal of Science. He has published more than 125 articles in journals, conference proceedings, and monograph series and has made more than 250 professional presentations.

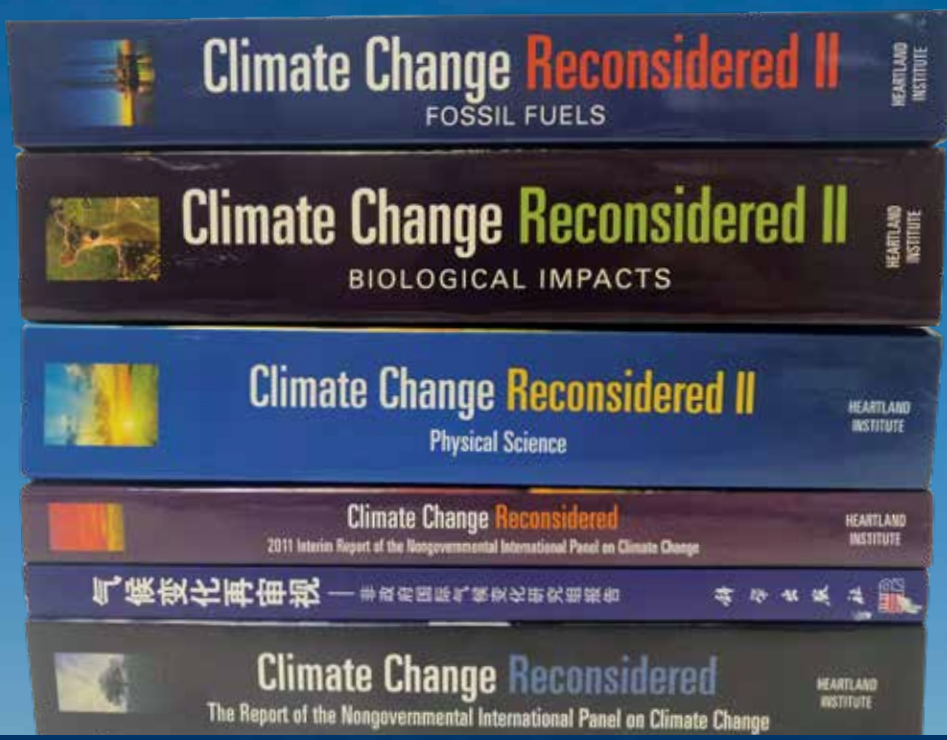
At the 10th International Conference on Climate Change in 2015, Dr. Legates was presented with the Courage in Defense

Read the "Red Team" fact-checking the UN's IPCC

The **Climate Change Reconsidered** series

A passion and science project of the late S. Fred Singer, Ph.D., the Nongovernmental International Panel on Climate Change (NIPCC) has been serving as the "red team" challenging the increasingly alarmist conclusions of the United Nations' Intergovernmental Panel on Climate Change for nearly two decades.

NIPCC is an international panel of nongovernment scientists and scholars who have come together to present a comprehensive, authoritative, and realistic assessment of the science and economics of global warming. The Climate Change Reconsidered series, published by The Heartland Institute, is vital information from the peer-reviewed literature that highlight deficiencies in the IPCC's reports.



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H. Sterling Burnett, Ph.D.
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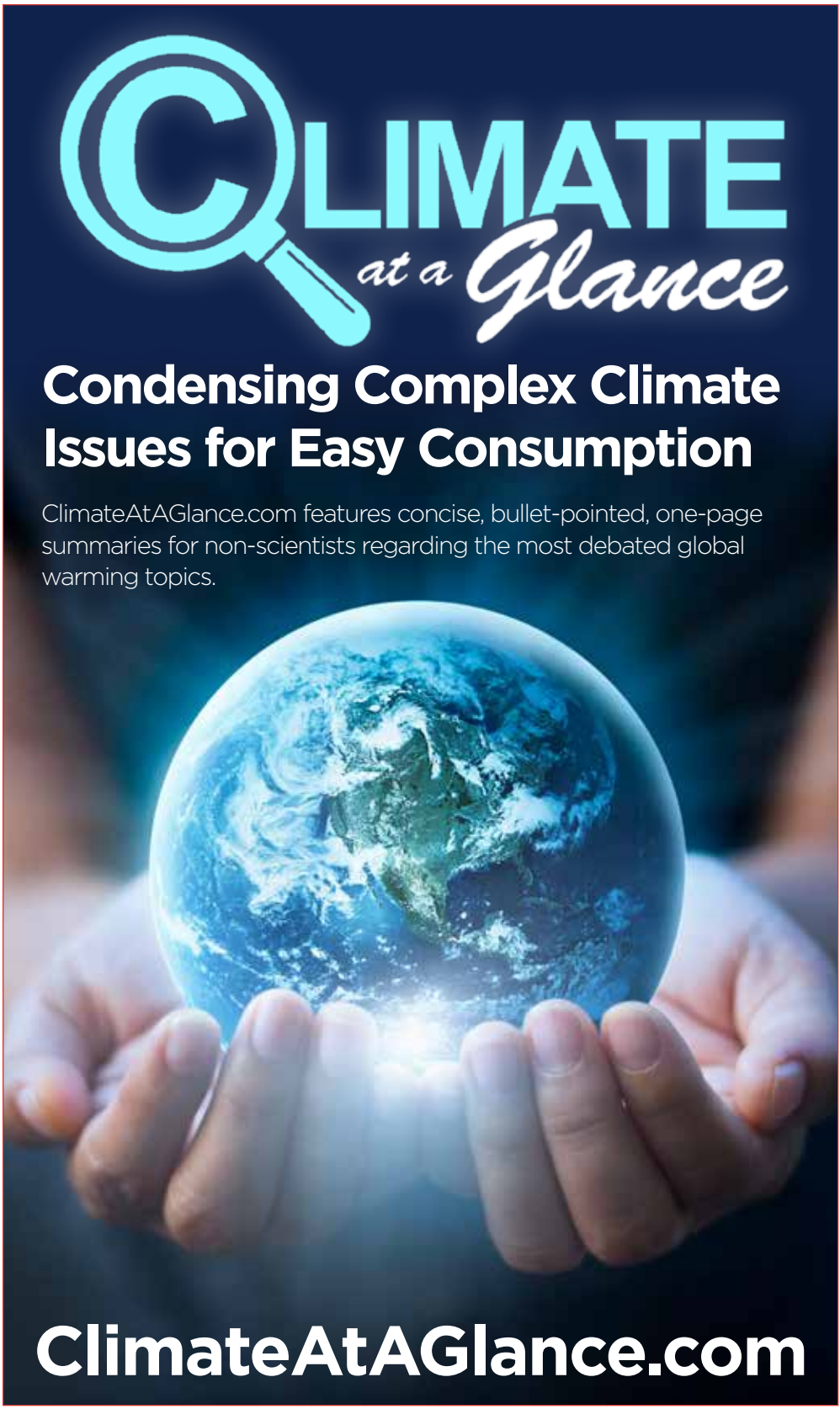
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About The Heartland Institute

Mission: Founded in 1984, **The Heartland Institute** is an independent, national, nonprofit research organization. Our mission is to discover, develop, and promote free-market solutions to social and economic problems.

Personnel: We have a full-time **staff of 24**, headquartered in Arlington Heights, Illinois. James Taylor is Heartland's president and Jim Lakely is our vice president. Joseph Morris is our Board chairman. Currently, **more than 500 academics** and professional economists serve as policy advisors and **226 elected officials** pay dues to serve in our Legislative Forum.

Publications: Heartland produces books, policy studies, booklets, podcasts, and videos. We regularly send policy analyses to every national and state elected official in the United States and to thousands of civic and business leaders. According to third-party polling, **78 percent of all state legislators** read our policy news coverage, and **45 percent of them changed their voting behavior** based on Heartland's content.

Communications: In 2020, Heartland appeared in **print, online, or on TV or radio 5,169 times**, including 832 times in printed publications, reaching a paid circulation of **118.5 million people**, which is equivalent to **$269 million worth of advertisements**. We hosted 15 websites generating **4.3 million page views**, our podcasts were **downloaded 6.6 million times**, and our YouTube videos were **viewed 1.8 million times**. We have more than **400,000 Facebook fans**, more than **35,000 total Twitter followers**, and more than **60,000 followers on YouTube**.

Government Relations: We **contacted elected officials 367,294 times** in 2020, with **2,353 direct personal contacts** with elected officials, including 131 face-to-face meetings, **1,252 personal email** contacts, and 14 testimonies.

Contact Information: 3939 North Wilke Road, Arlington Heights, IL 60004, phone **312/377-4000**, email **think@heartland.org**. For more information, visit our website at **www.heartland.org**.

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