SKATTERED SKY

A FILM BY STEVE DORST AND DAN EVANS



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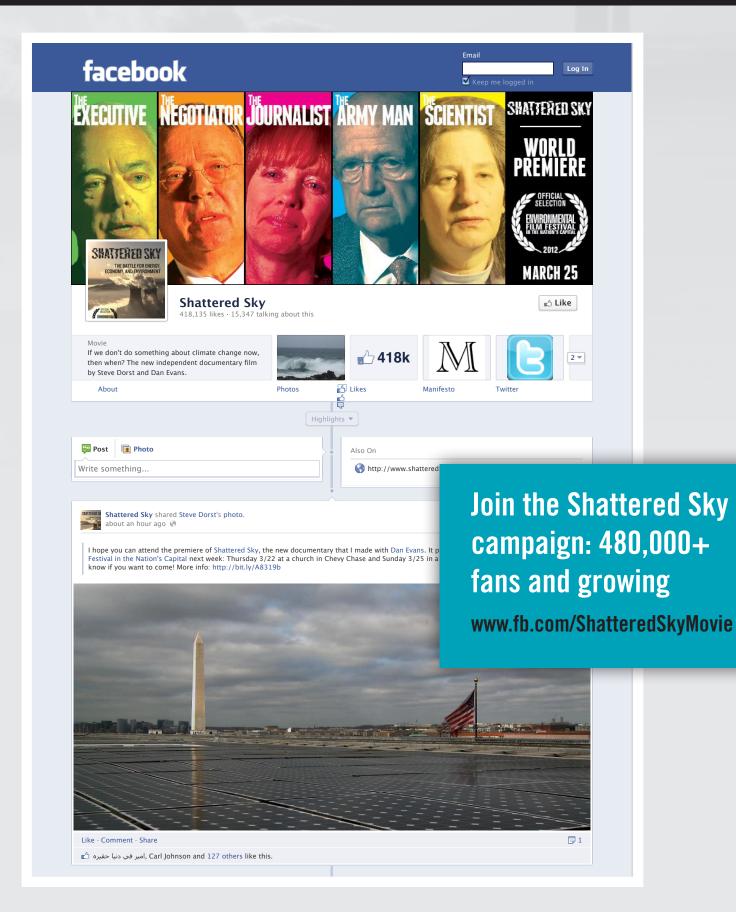
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CONTENTS

New York Times Article	 								. 3
Synopsis	 								. 5
Director's Statement	 								. 5
Early Praise	 								. 6
The Cast	 								. 7
About the Filmmakers	 								10
Credits	 						 		11



Green

A Blog About Energy and the Environment

When the World Tackled an Environmental Threat, and Won

By JIM WITKIN





In 1974, Dr. Sherwood Rowland, a young research scientist, warned the world that chlorofluorocarbons, man-made chemicals found in aerosol sprays and refrigerators, were damaging the earth's ozone layer. It took 13 years of bitter debate among governments, business leaders, scientists and

concerned citizens before the world accepted his findings and moved to ban these chemicals through an international treaty, the Montreal Protocol, in

Dr. Rowland died this month at age 84. Many of the articles about his life have recounted the success of the Montreal Protocol and ruminated on what lessons might be applied in seeking action on climate change.

"Shattered Sky," a new documentary by the independent filmmakers Steve Dorst and Dan Evans that had its premiere last week at the Environmental Film Festival in Washington (see the trailer above), explores how the United States led the way in seeking a solution to the ozone problem. The film tells its story through archival news footage and interviews with 18 prominent figures, including Dr. Rowland and his fellow researcher Mario Molina as well as administration officials from the late 1980s like George P. Shultz, then secretary of state, and Lee Thomas, then the Environmental Protection Agency administrator.

Mr. Dorst responded to questions about the film via e-mail. Here are some excerpts, edited for brevity and clarity.

In solving the ozone crisis, who were the champions, and what lessons can be applied to today's climate change debate?

In both climate and ozone you have a lot of parallels: an invisible substance threatens Earth's life-support systems; scientific debate; business bitterly opposed to change; and a powerful citizen voice. Ultimately, the difference on ozone is that our leaders acted in good conscience. E.P.A. Administrator Lee Thomas stands out for me as a bridge between President Reagan, big business and the environmental community.



Steve Dorst

Thomas told me that in Reagan's cabinet, they weren't debating the science they were debating risk-management decisions. So for me, "Shattered Sky" is not about the science. It's about what a responsible leader does when there's a good chance the science is right. It's important to remember that the first draft of the ozone treaty wasn't perfect. It was a first step. It showed the world that America was committed to lead - and that made all the difference.

The New York Times

Wednesday, March 28, 2012

But isn't climate change a much more difficult problem to solve because it ultimately involves transforming our energy infrastructure away from fossil fuels?

Yes, climate change is complex. But before the ozone treaty, the ozone crisis was considered an extraordinarily complicated issue. Business had billions of dollars invested internationally in chlorofluorocarbons in air conditioning, solvents and refrigeration. Regulation would create economic winners and losers - just like a price on carbon pollution would today. But almost as soon as America led the world to a treaty, DuPont started massproducing a chlorofluorocarbon replacement. So there's a strong link between federal regulation and innovation.

Was the ozone threat more tangible for people compared with climate change because of personal safety concerns like skin cancer and cataracts?

In 1985 we learned that the ozone hole over Antarctica was the size of North America, so it provoked a real sense of urgency. And it was well recognized that a depleted ozone layer would lead to more skin cancer. People also say that since President Reagan battled with skin cancer, this made a difference at the top.

Based on your discussions with Dr. Rowland, what was his view on the role of scientists in bringing about political solutions to environmental

I interviewed Dr. Rowland twice for the film, in June 2007 and in February 2009. He was a strong proponent that if scientists believe in their findings, they should speak out on what society should do - that it's important to play a role as a citizen.

What do you want people to do after watching the film?

People tell me they like "Shattered Sky" because it is a rare success story, and it's bipartisan. I want people to stop debating the science already. If there's a 50-50 chance the science is right, then let's take the example of the ozone crisis and start considering fundamental solutions. I'm hearing from younger viewers that they didn't know President Reagan supported strong ozone regulation or that President Nixon passed the initial Clean Air Act or that acid rain regulations came during the first President Bush's term. The real message of "Shattered Sky" is that taking responsibility for issues that affect our environment and economy is not partisan.

The film will be shown on public television stations nationally beginning in September to coincide with the 25th anniversary of the Montreal Protocol.









climate change, Emissions Reduction, Politics and Policy, Q & A, Science, "Shattered Sky", chlorofluorocarbons, Dan Evans, Documentary Films and Programs (Des);, F. Sherwood Rowland, Montreal Protocol, ozone layer, Steve Dorst





Friday, March 16, 2012

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'Shattered Sky' Tells How America Helped Save the World...and Can do it Again on Climate Change

The groundbreaking new documentary, "Shattered Sky: The Battle for Energy, Economy, and Environment," makes its world premiere next week at the 20th Environmental Film Festival in the Nation's Capital. "Shattered Sky" explores how America led the world to a history-changing solution to the ozone crisis. Backed by 400,000+ Facebook fans, "Shattered Sky" inspires viewers across all backgrounds and political beliefs to come together and tackle today's most pressing energy and climate challenges.

Washington, DC (PRWEB) March 15, 2012

The groundbreaking new documentary, "Shattered Sky: The Battle for Energy, Economy, and Environment," makes its world premiere next week at the 20th Environmental Film Festival in the Nation's Capital, which launched yesterday.

For the first time in film, "Shattered Sky" explores how bipartisan perseverance enabled America to lead the world to a history-changing solution to the ozone crisis. Tapping the same can-do spirit, "Shattered Sky" inspires viewers across all backgrounds and political beliefs to come together and tackle today's most pressing energy and climate challenges

Major American thought leaders are already teaming up with the "Shattered Sky" campaign. "This film reminds us of a time not long ago when we put politics aside and led the world to solve a global environmental challenge," said Larry Schweiger, President and CEO of the National Wildlife Federation. "We must do this again. As the education partner on this important film, NWF is committed to inspiring students to gain the science knowledge and civic engagement skills they will need to confront climate change head-on in the vears to come."

Director Steve Dorst is encouraging viewers to hold their elected officials to a higher standard. "Leadership is in America's DNA. Action now is smart for our energy, economy, and environment. We've done it before and we can do it again."

"I look back on the US leadership in securing [the Montreal Protocol ozone] treaty as one of my proudest accomplishments," said George Shultz, President Reagan's Secretary of State. "I urge you to watch this film. It shows what we can do when we actively work together to make a difference.

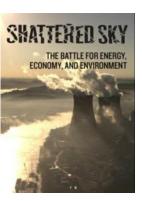
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http://Fb.com/ShatteredSkyMovie

"Leadership is in America's DNA. Action now is essential for our energy, economy, and environment."--Shattered Sky Director, Steve Dorst 99

The film's positive message is already resonating with more than 400,000 people who've joined Shattered Sky's campaign on Facebook, making it the third-largest community for a recent documentary (after Oscar winner "The Cove" and nominee "Food, Inc.").

In addition to its dramatic story, the film features a distinctive visual style: "All of our original footage is either slow motion or time lapse," explained Director and Cinematographer Dan Evans. "The slow-motion footage, primarily of people, symbolizes how we are stuck in time and unable to reach critical decisions on energy and environment that will affect generations to come. The time-lapse footage is a metaphor for how that same environment is changing before our very eyes.

"Shattered Sky" makes its North American premiere at DC's Environmental Film Festival on Sunday, March 25 at 3:30 pm EST at the Carnegie Institution for Science (1530 P Street, NW). A panel discussion will follow, featuring Schweiger, Rolling Stone contributing editor Jeff Goodell, Dorst, Evans, and moderator Sunshine Menezes executive director of the Metcalf Institute for Marine and Environmental Reporting at the University of Rhode Island.

Following its debut, "Shattered Sky" will play at film festivals in the US and abroad. PBS TV distribution launches nationally in September, with Maryland Public Television as sponsoring station. The release coincides with the 25th anniversary of the Montreal Protocol international ozone treaty

Film fest attendees and fans can join the Shattered Sky campaign and stay on top of developments via Facebook and Twitter.

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Attachments



Director Steve Dorst

Learn more at www.stevedorst.com or www.shatteredsky.com.



Shattered Sky's FB page

400,000 fans and growing: http://fb.com/ShatteredSkyI

SYNOPSIS

From independent filmmakers Steve Dorst and Dan Evans comes *SHATTERED SKY: THE BATTLE FOR ENERGY, ECONOMY, AND ENVIRONMENT.* Eerily reminiscent of today's climate-change crisis, *SHATTERED SKY* recounts the dramatic story of how America led the world to solve the biggest environmental crisis ever seen. Thirty years ago, scientists reported a hole in the ozone layer "the size of North America." The culprit was CFCs, prevalent in billions of dollars worth of products likes refrigeration

and air conditioning that had revolutionized the American way of life. Doctors forecasted skyrocketing cancer: the stakes were "life as we know it." But business remained bitterly opposed and politicians were initially slow to act. For the first time in film, SHATTERED SKY goes inside the ozone crisis to explore how America led the world to a solution. It inspires viewers toward the same can-do spirit on climate change today.

DIRECTOR'S STATEMENT

by Steve Dorst

This film compares the two biggest environmental crises of their generations: the ozone crisis that was all over the news in the 1970s and 1980s, and the contemporary challenge of energy security and climate change. This is a critical and timely subject. In 2009, when the House passed energy and climate legislation, America got as close as it's ever been to formulating a national energy policy to accelerate clean energy innovation. But it died in the dysfunctional Senate. Since then no elected officials will touch the topic with a 10-foot pole. Meanwhile, carbon emissions continue; and Presidential candidates deny global warming. Our national reliance on fossil fuels continues unabated. In making Shattered Sky, I really immersed myself in the period between 1974 and 1987—from the discovery that chemicals were zapping a hole in our ozone layer; to the understandable reluctance of business to change; to citizen power that helped make

a difference; and inside-the-Beltway debates on how best to craft a meaningful response. For people under 40 who didn't live through it, the ozone story is going to feel a lot like what we're experiencing today on climate. Yet the big difference is that during the ozone drama—during a recession and two consecutive Republican administrations—America chose to lead the world to a global solution. I hope that the film, in about an hour, will inspire us all to rethink the merits of strong leadership on energy and climate. If the ozone story shows us anything, it's that despite whatever political opinions we may have, there's a lot of integrity and reward in facing up to a global problem, getting our own house in order, and leading the world to a viable solution.

EARLY PRAISE

"Major American thought leaders are already teaming up with the Shattered Sky campaign. "This film reminds us of a time not long ago when we put politics aside and led the world to solve a global environmental challenge. We must do this again. As the education partner on this important film, NWF is committed to inspiring students to gain the science knowledge and civic engagement skills they will need to confront climate change head-on in the years to come."

> Larry Schweiger President and CEO, National Wildlife Federation

"When I was Secretary of State under President Ronald Reagan, the United States played a leading role in addressing a critical global environmental challenge preserving the Earth's ozone layer, which protects us from the sun's harmful radiation. I look back at the US leadership in securing [the Montreal Protocol] as one of my proudest accomplishments as Secretary of State. A new documentary film, *Shattered Sky*, tells this story. It also explores parallels with the current challenges we face in addressing global climate change and developing clean and secure energy supplies for the future. I urge you to watch this film. It shows what we can do when we actively work together to make a difference."

Secretary of State George Shultz, 1982–1989

"Watch this film. It shows we've been there before, and come out the other side with a clear victory—for both business and the environment."

Lee Thomas

Administrator, Environmental Protection Agency, 1985–1989

"Showcasing a film such as this one is very timely. Shattered Sky is not polemical, but provides both historical perspective and context for many who may have completely forgotten how these kinds of enormous issues—with huge scientific, commercial and political stakes—could actually come to resolution."

Robin Murphy Vice President, External Relations, World Resources Institute

"The timing could not be better for *Shattered Sky*. I am convinced that people of all stripes will be inspired by Shattered Sky to put aside short-term politics on climate change and consider the legacy we leave."

> Jeff Cohen VP Science and Policy, EOS Climate former Senior Manager, U.S. EPA

"Shattered Sky reminds us that global solutions are possible when we work together and the United States leads. The historic achievement on ozone retold in this film—the collective efforts of NRDC and others in the courts, Congress, and public square—was a triumph of bipartisanship and global cooperation. This film gives reason for hope that we can overcome our differences and win lasting solutions to the climate and energy challenges of today."

> Frances Beinecke President, Natural Resources Defense Council

"We're living through very uncertain times, but Shattered Sky—and the powerful American success story it tells reminds us that we can overcome our biggest energy and climate challenges if we confront them with resolve, confidence, and a sense of optimism."

Nicholas Moore Eisenberger clean economy pioneer and advisor to "Shattered Sky"

THE CAST

William Becker. Executive Director of the Presidential Climate Action Project. An international expert on sustainable development, Mr. Becker is a voice for practical solutions for Americaís leaders to address the climate crisis and move towards a new, cleanenergy economy.



David Doniger. Now the Policy Director of the Climate Center for Natural Resources Defense Council (NRDC), Mr. Doniger advocated for the phase-out of CFCs in the 1980s. As an attorney for NRDC, he filed an influential lawsuit to force the EPA to regulate CFCs under the Clean Air Act.



Richard Benedick. PhD.

Chief U.S. Negotiator to the Montreal Protocol, 1985-87 State Department, Ambassador Benedick played a key role in hammering out the details of the international treaty that phased out CFCs globally.



Daniel Dudek, PhD. Chief Economist at the Environmental Defense Fund with an expertise in China, Mr. Dudek is an international expert in capand-trade systems. He cut his teeth developing the successful cap-and-trade system used to



regulate sulfur dioxide emissions from coal-fired power plants—the source of acid rain.

Eileen Claussen. Currently the President of Center for Climate and Energy Solutions, Ms. Claussen has had a prolific career in international environmental policy, serving in the Environmental Protection Agency—where she was



responsible for issues such as ozone depletion, energy efficiency, and acid rain—and in the State Department, the National Security Council, and as Chairman of the UN Multilateral Fund.

Kevin Fay. Mr. Fay served as the Executive Director of the Alliance for Responsible CFC Policy, a trade association of major CFC producers including DuPont—from 1980-89.



Jeff Goodell. An author and Contributing Editor for Rolling Stone, Mr. Goodell is the author of Big Coal, which uncovers the hidden costs to environment. health, and community of the coal-fired power plants that supply nearly 50% of our nation's electricity.

Hunter Lovins. President and Founder of Natural Capitalism Solutions, Ms. Lovins is a nationally recognized expert in sustainable development who argues that market mechanisms can fuel economic growth while protecting the environment.

Mario Molina, PhD. An Atmospheric Scientist at U.C. San Diego and Scripps Institution of Oceanography, Dr. Molina co-developed the hypothesis that CFCs were destroying the ozone layer, for which he was awarded the Nobel Prize in Chemistry in 1995.

Bruce Nilles. As National Coal Campaign Director for the Sierra Club, Mr. Nilles works to phase out coal mining and coal-generated electricity production in the United States.









Michael Oppenheimer, PhD. A Princeton Professor and contributor to the Intergovernmental Panel on Climate Change, Dr. Oppenheimer served a productive tenure at Environmental Defense Fund (Chief Scientist, 1981-96), where he focused on the most

pressing issues of the day—including ozone depletion, acid rain, and climate change.

Shari Roan. A long-time journalist with the LA Times, Ms. Roan is the author of Ozone Crisis, the definitive account of the 15-year struggle to phase out CFC production and protect the ozone layer.



James Rogers. Currently Chairman, President, and CEO of Duke Energy, a Fortune 500 company, Mr. Rogers has publicly advocated for a cap and trade system to regulate CO2 emissions, without which there is less incentive to invest in alternative energy. Duke's



proposed merger with Progress Energy would create the nation's largest electric utility, as measured by enterprise value, market capitalization, generation assets, and customers, among other criteria.

F. Sherwood Rowland, PhD.

An Atmospheric Scientist at U.C. Irvine, Dr. Rowland codeveloped the hypothesis that CFCs deplete the ozone layer for which he and Dr. Molina were awarded the 1995 Nobel Prize in Chemistry. He was a vocal advocate for phasing out CFCs throughout the 1970s and 80s.



Susan Solomon, PhD. An

Atmospheric Scientist at the National Oceanic and Atmospheric Administration, Dr. Solomon led the first National Ozone Expedition to Antarctica in 1986, which laid the groundwork for proving that CFCs were causing the



ozone hole. Later, she was a key contributor to the Intergovernmental Panel on Climate Change team that was awarded the Nobel Peace Prize in 2007.

General Gordon Sullivan (retired). A former Army Chief of Staff during the Clinton Administration, General Sullivan is a member of CNA's Military Advisory Board and coauthor of its groundbreaking reports linking the threat of climate change to national security.



Lee Thomas. As Administrator of the Environmental Protection Agency during the Reagan Administration, Mr. Thomas forged the domestic and international consensus necessary to negotiate the Montreal Protocol, which phased out the production of



CFCs worldwide—and provide one of the most important models for crafting a new climate change treaty today.

Robert Watson, PhD. As a leading atmospheric scientist at NASA (1980-1993), Dr. Watson organized the National Ozone Expeditions that proved CFCs were causing the ozone hole, and developed the system of international



scientific assessments that form the basis of the Intergovernmental Panel on Climate Change, which he later chaired.

ABOUT THE FILMMAKERS

Director Steve Dorst

Steve Dorst is an independent filmmaker based in Washington, DC. He directs, produces, edits, and shoots for TV, film, and corporate clients. Shattered Sky: The Battle for Energy, Economy, and Environment is his second independent documentary feature. Steve also



directed and produced the award-winning documentary Volcanic Sprint (2008), which played in festivals worldwide and is currently repped globally by American Public Television. Steve has a lot of experience filming in international locations, having led field production teams and shot on five continents.

Director Dan Evans

Dan Evans is an award-winning filmmaker, producer, and editor based in Washington, DC. He regularly works with National Geographic Television and Bloomberg Television, while also maintaining a passion for producing short films for nonprofit organizations such



as the International Crisis Group and the UN Refugee Agency. Dan holds a Master's degree in international affairs from the George Washington University. Shattered Sky, which will air nationally on public television, is Dan's second collaboration with Steve Dorst, following their work together on the documentary film *Volcanic Sprint* for American Public Television.

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Producers:

Richard MacKenzie and John Collin Footage courtesy of

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Written by Steve Steckler Performed by Steve Dorst

ADDITIONAL MUSIC BY

Justin Alvarado

WEBSITE DESIGN

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SHATTERED SKY [THE **MOTION PICTURE SOUNDTRACK**]

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IN MEMORIAM

Dr. F. Sherwood Rowland June 28, 1927 -March 10, 2012