

Vista Clara Films presents

# CRUDE IMPACT

A film by James Jandak Wood  
Running time: 97 minutes

"It is basically every bit as serious as thermonuclear war. We thought that was really serious. Now you could argue, that was silly, we spent fifty years worrying about that and we never had one. I would argue maybe one of the reasons that we never had one is that we worried about it for fifty years."

Matthew Simmons

Author of "Twilight in the Desert"  
speaking in Crude Impact



[www.crudeimpact.com](http://www.crudeimpact.com)

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# CRUDE IMPACT

## Introduction

**Crude Impact** is an award-winning documentary film which Chris Vernon of TheOilDrum.com called "a terrific film... the best documentary I have seen on the subject." This feature film explores the interconnection between human domination of the planet, and the discovery and use of oil.

**Crude Impact** has been an official selection at over thirty film festivals around the world and has won numerous awards. The film has been translated in to French, Spanish and Czech.

**Crude Impact** was awarded the **Best Environmental Feature Film** at the 3rd Annual Artivist Film Festival in Los Angeles. The film screened at the famous Egyptian Theater on Hollywood Boulevard.

**Crude Impact** captured the **Grand Jury Prize** at the 2nd Annual Cinestrat Film Festival in Finestrat, Spain.

**Crude Impact** won the prestigious **Social Justice Award** at the 22nd Annual Santa Barbara International Film Festival.

Playing in the DOCNZ New Zealand Documentary Film Festival in cities across New Zealand, **Crude Impact** was honored as one of **The Best of Fest** films.

**Crude Impact** also won two awards at the 4th Annual Montana CINE International Film Festival - one of the three major awards at the festival, the **Hands Around the World Award** and the **Best Cultural Issues Film** award.

The film was selected for two awards at EKOFILM 2007 in the Czech Republic; **The Host City Best Film Award** and **The Student Judges Award**.

**Crude Impact** was nominated for three awards at the Sacramento International Film Festival - **Best Documentary**, **Best Editing**, and **Best Environmental Film**, and was nominated for **Best World Popular Scientific Film** at the 42nd International Popular Scientific and Documentary Film Festival in Olomouc, Czech Republic.

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**Crude Impact** was also an official selection of the prestigious **International Documentary Film Festival in Amsterdam**.

The film enjoyed a short theatrical run in San Francisco, Chicago, New York and Portland.

**Crude Impact** has been broadcast on television in Australia, Sweden and the United States.

The objective of **Crude Impact** is to promote positive, hopeful change in the way we source and use energy - changes that will create a more just and sustainable world.

## Synopsis – long version

**CRUDE IMPACT** is a powerful and timely story that deftly explores the interconnection between human domination of the planet and the discovery and use of oil. This documentary film exposes our deep-rooted dependency on the availability of fossil fuel energy and examines the future implications of peak oil – the point in time when the amount of petroleum available worldwide begins a steady, inexorable decline.

In 1956, M. King Hubbert, a geologist at Shell Research Labs, shocked the oil industry by predicting that United States oil production, the largest in the world at that time, would peak in the early 1970s and then continuously and irreversibly diminish. His prediction was vilified and largely ignored – until it came true. In **CRUDE IMPACT**, modern day disciples of Hubbert presage how quickly global peak oil will become a reality and its many serious implications for our way of life and our world.

Journeying from the West African Delta region to the heart of the Amazon rainforest, from Washington to Shanghai, from early Man to the unknown future, **CRUDE IMPACT** chronicles the collision of our insatiable appetite for oil with the rights and livelihoods of indigenous cultures, other species and the planet itself. With great depth and insight, the film highlights the underlying myths and beliefs that are propelling us toward what many experts believe will be a cataclysmic period for humanity.

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This timely, eye-opening investigation parallels the high-powered drama of *SYRIANA* but brings it to a level of accessibility, awareness and action for citizens on all points of the economic-cultural-political spectrum. A story filled with discovery, sorrow, outrage, humor and ultimately, hope. **CRUDE IMPACT** uncovers the complex entanglement of the fate of humankind with its fierce dependence on petroleum, while providing a vital inspiration for change.

## Reviews

**by Chris Vernon of OilDrum.com**

*" a terrific film... the best documentary I have seen on the subject."*

"Crude Impact isn't just a film about peak oil, it's far broader. In fact peak oil isn't even specifically mentioned until two-thirds through. This is to the film's credit allowing the relationship between oil and humanity to be developed before thinking about the future.

The cinematography, iconic images, symbolism, soundtrack and the overall production quality are absolutely top notch. This professional look and feel adds credibility to the message and I believe makes the film all the more watchable for someone to whom this subject matter is new. On the subject matter, the film is well structured covering importance of oil in human development, foreign policy impacts, human impact, uses of oil, environmental impacts, the role of the media, before moving on the peak oil itself and the impacts of peak oil for the future.

I was particularly impressed with the early linking of fossil fuels with population expansion, equating a species' evolutionary successes with its ability to extract energy from the environment. This is one of the first points the film makes, establishing the historic importance of fossil fuels and oil in particular. Food is highlighted as a critical use of oil, repeating the 10:1 energy ratio often quoted and that fossil fuels allow more energy to be used in the production of food than the food itself contains adding that for any other organism this spells extinction.

The film does not just focus on the energy and material side of things. The human and sociological impacts of oil are also considered. Rees

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questions the notion of material growth pointing out how we have far exceeded what is actually needed to be happy. Two examples of the negative impact of the oil industry are covered in detail, Texaco's activities in Ecuador and Shell's in the Niger Delta. In Ecuador Texaco took advantage of an inexperienced government and lack of regulation to exploit reserves in the Amazon rain forest employing methods disallowed in other provinces. One statistic presented is that during Texaco's time in the rain forest (1964-92) they dumped 18 billion gallons of waste water containing 2% crude oil into the environment, the equivalent of 30 times the oil spilt during the Exxon Valdez disaster.

In the Niger Delta the environmental destruction, particularly in Ogoniland is presented through story of Ken Saro-Wiwa's human rights and environmental activism and subsequent execution in a case backed by Shell. The point here I believe was to stress the direct suffering both human and environmental associated with the production and ultimately consumption of oil.

Crude Impact is critical of mainstream media suggesting that if the true impacts of our current oil policies were widely known they wouldn't enjoy public support. Modern news coverage is criticised as "infotainment", regarded as profit centre rather than the public service it should be, telling us what is really happening in the world.

Climate change is covered with mankind's exploitation of fossil fuels described as the most significant thing humans have ever done, triggering perhaps the 6th great extinction event.

The subject of peak oil is covered very convincingly. Hubbert's story is presented with added credibility from Deffeyes' who worked with Hubbert at Shell. Of note are the fantastic graphical animations explaining the concept of peak oil, illustrating how production must follow discovery and how discovery has clearly peaked decades ago.

OPEC's reserve growth is questioned, the USGS estimates of remaining resources are claimed by Al-Husseini to be exaggerated and Deffeyes even mentions an email he received from the head of the USGS explaining how large estimates were needed to encourage people to search for more oil!

The viewer is left with no doubt we are moving from a time of cheap abundant oil to one of expensive scarce oil. The impacts of peak are

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presented as resource wars, civil wars within oil exporting countries and a weakened economy subsequently less able to respond to new challenges. As oil becomes more valuable increased human rights and environmental damage is likely. The fundamental problem we face is described as growth, a problem that can't be solved even if a new energy source is identified. Another limit will present itself, be it water, soil, phosphates etc. Population was mentioned at the start and was returned to at the end. Kavita Ramdas highlights the importance of women with respect to population stating that for every additional three years of education a woman receives reduces the number of children she has by one.

Crude Impact is a terrific film. I have no hesitation in saying it is the best documentary I have seen on the subject and I would feel very happy about recommending it to anyone. Key I think is its accessibility to someone with no prior exposure to the story of oil."

***by Tasha Robinson of the Chicago Tribune***

The filmmakers behind "Crude Impact" certainly know how to make a crude impact themselves; first-time writer-director James Jandak Wood opens with author Matthew Simmons proclaiming "If peak oil happens, and people don't understand what's going on, it could very easily be a global tipping point. It is basically every bit as serious as global thermonuclear war." It's an arresting beginning, but also a risky one, guaranteed to make viewers brace for scare-mongering, hyperbole and sweeping generalizations.

"Crude Impact" does periodically threaten to take those low roads. Much like the similar documentary "The 11th Hour" earlier this year, it's a collection of talking-head interviews enlivened by stock footage and quick cutting meant to keep viewers receptively dazed and glued to the screen in spite of the frightening message about environmental decay.

But where "11th Hour" shallowly addressed a wide variety of topics, "Crude Impact" goes deep and expansive on the political, environmental, and cultural costs of American dependence on oil. Arguing that we've reached the point of "peak oil," where the amount of petroleum that can be drawn from the Earth will inevitably start to decline, a handful of authors and activists illustrate the negative

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impact American oil drilling has had domestically and overseas. As oil becomes harder to find, they explain, the oil companies will become even more ruthless and profit-driven, and their track records of economic and political exploitation offer no hope of moral restraint.

Some of "Crude Impact's" message comes via the inevitable animated charts and graphs, plus broad, simple statements like Simmons', and some of it feels like pandering, with its cutesy use of vintage cartoons and jokey visual juxtapositions. But the message is earnest and sincere, and Wood argues it well, with chilling case studies of Texaco's wholesale pollution in Ecuador and Shell's fatal interference with politics and protests in the Niger Delta. Using an unsettling clip of an indulgent TV "news" piece about Ronald McDonald that could double as a corporate commercial, he illustrates how news and entertainment have merged, and shows how viewers need to be involved in their world if they want real information about the damage being done in their name and how to fight back. Accessible, focused documentaries like "Crude Impact"-- available on DVD and ready for the classroom-- are a decent start.

Written and directed by James Jandak Wood; photographed by Sharon Anderson; edited by Wood, Anderson, and Pamela Spitzer; music by John DeBorde; produced by Wood, Jennifer Jandak Wood and Joanne Shen. A Vista Clara release.

## ***by Dennis Harvey of Variety***

That road trip you were planning for 2057 might look a tad less likely after viewing "Crude Impact," which sees disaster looming all too soon in the growing global demand for a shrinking oil supply -- especially in the U.S., where consumption and native supply levels are most out of whack. James Jandak Wood's docu is playing scattered theatrical dates, but will probably prove most effective as a spur for education and activism on DVD.

Pic links the enormous world population growth in recent decades to the seemingly endless use and supply of oil, which is involved one way or another in "nearly every product we consume," particularly food production. President Bush the First famously said this "American way of life is non-negotiable," but Mother Nature may nullify the contract.

One striking graphic illustrates that while there's a car for every 1.7 Americans, there's one for every 117 Chinese. This extravagant use of

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energy was cemented in the 1950s, when the U.S. was indeed the world's largest producer of petroleum. Shell geologist M. King Hubbert's warning then that production would peak in the early '70s and decline steadily thereafter was laughed off as hysterical doom-saying.

But in fact, Hubbert was on the money. While little has changed in terms of U.S. energy conservation or wasteful usage, the vast majority of oil is now imported from Third World countries. Rather than elevating their citizens' general well-being, these nations too often enrich a ruling elite while the majority endure poverty, starvation, disease and political oppression. A military massacre protecting Shell Oil interests from protestors in Nigeria and environmental devastation wrought by Texaco in Ecuador are among examples cited.

First World nations are now starting to look seriously at climate change. But such attempts at rollback are not welcome by such rapidly expanding nations as China and India, which have arrived at their own industrial booms.

Other topics touched on in this chapter-organized feature include the virtual mainstream media blackout on discussion of long-term oil issues and the prospects of widespread species extinction due to pollution and global warming.

Various scientists, analysts, politicians and others add talking-head commentary in a smooth package that makes good use of archival materials, especially some campy old educational cartoons that add fleeting levity to a grim message.

A Porchlight Entertainment release of a Vista Clara Films production. Produced by James Jandak Wood. Executive producer, Steve Michelson. Co-producers, Jennifer Jandak Wood, Joanne Shen. Directed by James Jandak Wood.

With: Tundi Agardy, Guy Caruso, Cindy Cohn, Kenneth Deffeyes, Steve Donziger, Emeka Duruigbo, Michael Economides, Christopher Flavin, Amy Goodman, Thom Hartmann, Richard Heinberg, Santiago Kawarim, Terry Lynne Karl, Michael Klare, Kavita Ramdas, William Rees, Matthew Simmons, Lynne Twist. Narrator: Natalia Bortolotti.

Camera (color, DV), Sharon Anderson; editors, Pamela Spitzer, Anderson, Wood; motion graphics, Yussef Cole; sound, Spitzer. Reviewed at Roxie Cinema, San Francisco, March 24, 2007. Running time: 98 MIN.

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**by Sarah Schieron of *SanFranciscoGuardian.com***

More concrete than other docs on the implications of big oil, *Crude Impact* presents an incontestable series of experts and lecture-style graphics to prove our addiction to Texas tea has disastrously impacted the world's population, economy, and environment.

After establishing our dependence on oil for basic products such as lightbulbs and nylon shirts (the collective damage from my shirt and Timbuk2 bag could be hurting people in Ecuador right now), the film proves that the indiscriminate practices by which governments and corporations extract oil have devastated communities in many nations. In short, the ecological damage that seems so vaporous to Americans is far from abstract.

In *Crude Impact* the war over oil isn't a battle between hybrids and Hummers; it's an issue of worldwide economic proportions. Peak oil (the point at which the amount of extractable oil begins to irreversibly decline) has been discussed by geologists since the early '60s and is nearing urgently. The film credits the infotainmentization of media with our mass ignorance but also offers some practical solutions we can all try.

***from Lynne Twist, author, "The Soul of Money"***

"*Crude Impact* is one of the most powerful documentary films I have ever seen and is focused on what is probably the most important topic of our time – our addiction to oil. It is unforgettable, riveting, insightful, shocking, compelling and profound. It is impossible to see this film and not begin to rethink the way we live. Everyone should see it."

***from Alissa Hauser, Executive Director, Circle of Life***

"*Crude Impact* is a poignant look at the interconnections between the many issues that have brought our planet to an environmental crisis point. The filmmakers do a brilliant job of telling key stories...and how these are woven into the most pressing issues we are facing."

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*from Adrienne Bramhall, Sierra Club Productions*

"After watching so many films... I'm a tough audience and it is hard to find something new. This film was it. I thought it was as comprehensive as it was compelling."

## ***Audience feedback***

Daniel - Detroit, Michigan, USA

**"one of the best films I've ever seen"**

"This is one of the best films I have ever seen. For years and years I have tried to let everyone I know that the world was in trouble over oil. My children were always taught to think for themselves and the things in this film about the media and corporate greed and our own government lies echo my own thoughts over the years. I will try to show this film to as many people as I can. Thank you."

Cheryl - Marysville, California, USA

**"Every person in the world, and especially in this country, should see this film"**

Last night I tuned in to Free Speech TV and had the good fortune to see your film Crude Impact. I was so impressed I had to see if it was available for purchase. I am so glad to find on the internet that it is. So, I have just ordered it. Thank you for all your hard work in putting together such an informative and motivating film. Every person in the world, and especially in this country, should see this film. I hope to have friends and family see it and hope that they will be inspired to inform their friends and family about it as well.

Clare - Melbourne, Australia

**"WOW"**

"I've just watched your film on SBS in Melbourne Australia. WOW. I have to get a copy as it must be studied in small parts. I'll have to play each section over and over until it sinks in properly. I THANK YOU for all that research and to pull all the bits together in one SIMPLE package available to all."

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Mike - Sedgefield, South Africa

## **"Counter to gloss"**

"The message is international and your film is a really good counter to the gloss of "An Inconvenient Truth". The tragedy is that it has not been as widely seen."

Chris - Australia

## **"Thank you"**

"I have just seen your film, Crude Impact. I was deeply impressed by its quality and content. I was also deeply moved by the depth of it, and most importantly; the significance... it deepened my perspective substantially. I now use only low energy globes, and I've cut my power usage, and bill significantly. You not only inspired me, you saved me \$150.00 AU a quarter."

Molly - Portland, Oregon, USA

## **"Powerful documentary film 'Crude Impact' - please share"**

"Last night I saw Crude Impact, a profoundly important documentary done by Jay Wood. I was very deeply moved by the experience of seeing Crude Impact, and also by the passion and profound caring that made this man's filmmaking debut something that left me breathless.

For me, seeing Crude Impact is yet one more experience that gives me hope and inspires me. It is so moving and so touches my heart to see yet again how the actions of one person can make such a difference. Perhaps there are steps that can be taken by each and every one of us, no matter how small...like sharing about a powerful and extraordinary film called Crude Impact."

Michael - Hoboken, New Jersey, USA

## **"spectacular and insightful documentary"**

"Crude Impact is a spectacular and insightful documentary. One cannot see this without being stirred into a behavior change. Nice work."

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Grayce - Toronto, Ontario, CANADA

**"visionary and amazing"**

"I attended this year's Artist Film Festival and Awards Ceremony. Congratulations again, on your award for your visionary and amazing "Crude Impact" film. To me, this film is such a gift to the human family."

Donna - Pittsburg, PA

**"Thank you for developing such a film"**

"Thank you for developing such a film that has tremendously impacted my life. I think it should be mandatory for everyone to see this film including the kids in school - this is not only our future, but theirs. Thank you again!!!"

Greg - Tucson, AZ

**"This film should be mandatory viewing"**

"This film should be mandatory viewing for all high school students, college students, republicans, democrats, libertarians, men, women, conservatives and liberals....and in all countries on the planet. Thank you for this masterpiece of reality....especially for exposing the "myth". "

Kelley - Syracuse, NY

**"I have been deeply moved by the documentary"**

"I have been deeply moved by the documentary and would very much like to become a part of a local movement to make change, supporting sustainable energy sources, reduce fossil fuel use, support local farmers and so on."

Carm - Fort Collins, CO

**"Chilled to the bone!!"**

"I just watched the last 20 minutes of the film and I was chilled to the bone!! I would love to campaign for this cause in my community."

## Director's Statement

In the summer of 2004, I traveled with the Pachamama Alliance, a non-profit organization, to visit the Ecuadorian rainforest and the Achuar people that have lived there for millennia. An astoundingly beautiful place, the rainforest is literally teeming with exotic life and at the same time peaceful beyond measure. One afternoon, on a walk through the forest, an Achuar, our guide, stood by a majestic kapok tree that seemed to reach to the canopy over a hundred feet above and astounded us by saying "I would defend this tree with my life".

There started a personal odyssey that led from the rainforest through a pile of books that would rival the Encyclopedia Britannica in size; books on the history of oil extraction, on peak oil, on food production, population growth and more. At some point along the way, I decided I wanted to tell the story of how oil had impacted the earth, humanity, other species and the climate. Film seemed to be the most powerful medium to deliver the story, but I had never been a filmmaker. So along with learning all I could about oil extraction, I began to learn as much as possible about filmmaking. And it has been a joyous, frustrating, often surprising journey.

Oil development, as it turns out, is what the Achuar fear. As do many people in many countries around the globe. Reading the history of oil development, I understood why.

After several months of preparation, in January, 2005, with my director of photography, Sharon Anderson, and sound designer, Pamela Spitzer, we began filming. As is always the case on such explorations, you have a vision of what the story is, but people surprise you and lead you down paths you never imagined. Brilliant people with whom we met, such as Amy Goodman, Thom Hartmann, Dr. William Rees, and Richard Heinberg, had singular and surprising ideas about the interconnection of oil and our planet. And so this story wove itself in to a web connecting countless aspects of our existence, because nearly everything we have, and everything we do, is somehow connected to oil and fossil fuels.

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For over a year we interviewed the people we felt best understood the history of oil's impact on our world and the issue of peak oil. Peak oil is the point in time where the quantity of oil extracted from the earth begins to irreversibly decline. The ramifications of peak oil are terrifying, and they reverberate through the Amazon rainforest and all across the globe.

I am immensely pleased with the journey that is the film **CRUDE IMPACT**. It's the story I thought *SYRIANA* would tell, but didn't. From so many sources came great inspiration, brilliant ideas, feedback and much needed encouragement. And I think the end result is an informative tale that will change the way you think about oil.

## Awards & Film Festivals

**Best Environmental Feature Film** at the 3rd Annual Activist Film Festival in Los Angeles.

**Grand Jury Prize** at the 2nd Annual Cinestrat Film Festival in Finestrat, Spain.

**Social Justice Award** at the 22nd Annual Santa Barbara International Film Festival.

One of **The Best of Fest** films DOCNZ New Zealand Documentary Film Festival.

**Hands Around the World Award** at the 4th Annual Montana CINE International Film Festival.

**Best Cultural Issues Film** award at the 4th Annual Montana CINE International Film Festival.

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Nominated for **Best Documentary, Best Editing, and Best Environmental Film** at the at the Sacramento International Film Festival.

Nominated for **Best World Popular Scientific Film** at the 42nd International Popular Scientific and Documentary Film Festival in Olomouc, Czech Republic.

Crude Impact was also an official selection of the prestigious International Documentary Film Festival in Amsterdam.

## Distribution

### ***Education***

The Video Project, a part of Specialty Studios Inc., distributes Crude Impact in to the education marketplace. The Sierra Club has partnered with The Video Project and Vista Clara Films to produce the study guide for the film.

### ***Television***

Porchlight Entertainment of Los Angeles distributes Crude Impact to television markets around the world. The film has been shown on television in Australia, Sweden and the United States.

### ***Theaters***

Crude Impact has been run in theaters in several major cities. The film played for a week long run at the Roxy Theater in San Francisco. It was also shown in theaters in Portland, Oregon - one night at the famous Bagdad Theater and four nights at the Clinton Street Theater. The film will also played a theatrical showing at the Facets Multimedia Cinematheque in Chicago.

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## Synopsis – medium version

CRUDE IMPACT is a powerful and timely story that deftly explores the interconnection between human domination of the planet and the discovery and use of oil. This documentary film exposes our deep-rooted dependency on the availability of fossil fuel energy and examines the future implications of peak oil — the point in time when the amount of petroleum worldwide begins a steady, inexorable decline. Journeying from the West African delta region to the heart of the Amazon rainforest, from Washington to Shanghai, from early man to the unknown future, CRUDE IMPACT chronicles the collision of our insatiable appetite for oil with the rights and livelihoods of indigenous cultures, other species and the planet itself. It is a thought-provoking story filled with discovery, sorrow, outrage, humor and ultimately, hope.

## Synopsis – short version

A powerful and timely exploration of the interconnection between human domination of the planet and the discovery and use of oil, CRUDE IMPACT exposes our deep-rooted dependency on the availability of fossil fuel energy and examines the dire implications of the pending threat of global peak oil.

## Biographies

### James Jandak Wood

Director, Producer, Screenwriter, Editor

James Jandak Wood's filmmaking debut, CRUDE IMPACT, is a documentary feature first inspired by a life-altering trip to the Amazon rainforest in 2004. Subsequent reading on the effects of oil exploration and use on the rainforest, world climate, humanity and other species motivated him to create the film.

In 2001, after more than twenty years in the high technology industry, including fifteen years as a CEO and founder of two successful

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software companies, James began to focus his energies on not-for-profit organizations. These efforts led him to the Pachamama Alliance and the rainforest.

The Pachamama Alliance, with whom James is an advisory council member and a donor, is an international organization collaborating with the indigenous people of Ecuador to both protect their native lands from oil exploitation and raise awareness throughout the world of the global impact of rainforest destruction. James is also an involved benefactor with Search for Common Ground, the world's foremost conflict transformation non-profit with offices in over a dozen countries, including Sierra Leone, Burundi, Nepal, Israel/Palestine and the United States. He is also active with the Post Carbon Institute and the Association for the Study of Peak Oil.

In order to bring his passion to a wider audience, James pursued studies in film making through the Film Arts Foundation and the Bay Area Video Coalition.

James holds a Bachelor's Degree in Electrical Engineering from Pennsylvania's Villanova University and pursued graduate studies in at Villanova and Drexel University in Philadelphia. He is married to co-producer Jennifer Wood.

## Steve Michelson

Executive Producer

Steve Michelson was Executive Producer of Oil on Ice, an award winning film which presents the beauty and grandeur of the Arctic National Wildlife Refuge against the political backdrop of oil exploration and development, and its impact upon Alaska Natives and the land.

In 2006 he has launched Specialty Studios, a distribution service that handles all aspects of distribution for documentary projects including: traditional, specialty, Broadband and video on demand (VOD).

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In 2001 he opened the Studio at Lobitos Creek Ranch, which offers video and digital media production, including development, co-production, editing, animation, DVD, Web-enabled DVD, and multimedia design and authoring.

Steve was founder and president of One Pass, Inc (1975-87), San Francisco's largest production and post-production studio. He is a recipient of the Gilbert Award for outstanding contribution to Northern California's film community and is a former board member of Film Arts Foundation, the country's largest regional organization of independent producers. He has served four terms as a Governor with the National Academy for Television Arts and Sciences (NATAS).

Steve is a graduate of the University of Pennsylvania where he attended The Annenberg School of Communications and the Wharton School of Business.

### John DeBorde

Composer

John DeBorde is an award-winning composer of music for Film and Television. John received the prestigious Telly and Aurora Awards in recognition of the dramatic music scores he wrote for a series of short films titled Reconocer, and a second Telly Award for his score for The Moment. His credits also include the films Voices of the Sierra Tarahumara (Sundance 2001) and Pursuit of Equality (Best Documentary - San Francisco Int'l 2005), and the television special Islam in America: Faith Under Fire, which aired on MSNBC. John has also composed more than 500 promos for the Warner Brothers Television Network.

In addition to studying and performing numerous instruments, with a focus on piano and guitar, John broadened his training to include film and drama and received a Masters Degree in Music Composition from San Francisco State University.

John remains active in concert performance. He recently premiered his work New Moon Haze (a chamber concerto featuring solo electric

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guitar) with the Nieuw Ensemble in Amsterdam, featuring himself as the soloist. His works have also been performed at CSU Summer Arts in Long Beach California, June in Buffalo and at various venues in the San Francisco Bay Area.

## Sharon Anderson

Director of Photography, Editor

Sharon Anderson has over 20 years experience in the field of graphic design and photography. Her interest in film and television began while living on the east coast where she did an internship at New Jersey Network. Sharon has been a design consultant with Adobe Systems, Inc. for many years and has art directed a number of award-winning national magazines. Sharon studied cinematography at Bay Area Video Coalition and Film Arts Foundation. She is currently Creative Director of Blue Moon Design in San Francisco.

## Pamela Sptizer

Sound Designer, Editor

Pamela Spitzer started her career in advertising, producing a wide variety of radio and television commercials. Shortly after that, she became an audio engineer and worked on various sound recording and mixing projects in Los Angeles. She was hired as the Audio Operations Director for DGS, an audio digitizing company, developing the process by which audio signals are digitized, compressed and sent over an extensive network. In 2004, she studied documentary film editing and sound recording. Prior to working on Crude Impact as the sound designer and editor, Pamela had experience working on several short films. Pamela is currently working as the Sound Director for the podcast company ApplauseCast.

## Jennifer Jandak Wood

Co-producer

Jennifer Jandak Wood is a graduate of Smith College, where she earned a degree in Biology. She subsequently received her Master's Degree in Biomedical Engineering from Brown University. Jennifer

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worked for over fifteen years in the medical device industry. She holds more than a dozen patents for devices used in both brain and heart surgery.

Jennifer was a key participant in the making of *Crude Impact*, taking on the role of co-producer, attending many of the filming sessions and adding creative input to the film. She is also heading the design team for the website [www.crudeimpact.com](http://www.crudeimpact.com).

## Joanne Shen

Co-producer

Joanne Shen is a graduate of Princeton University where she received her bachelor's degree in English literature. After working as a journalist in China and Hong Kong, Joanne completed a two year program in documentary film making at Stanford University.

Among Joanne's many credits are the film *King of Kowloon*, a half-hour documentary about a crippled Cantonese graffiti artist, which she co-directed and co-produced and which won the Distinguished Award at the Hong Kong Independent Film and Video Awards. She also produced and directed *Cricket Outta Compton*, a half hour documentary about an American cricket team which won first prize in the Black Maria Film Festival.

## Yussef Cole

Motion Graphics Design

Yussef Cole is a recent graduate of Oberlin College where he earned a Bachelor of Arts and Sciences with Honors in Studio Art. His first film work was as a freelance video editor for "The Unrecovered", a film by Roger Copeland. Yussef joined the team on *Crude Impact* as a researcher, but as his talent with Adobe After Effects became evident, Yussef took on the role of Motion Graphics Design. He is currently a designer with Current TV in San Francisco.



## People in Crude Impact

Below are some of the people interviewed in the film Crude Impact.

### Amy Goodman

Amy Goodman is a broadcast journalist and author. As an investigative journalist, she has aggressively pursued human rights violations in East Timor, Nigeria and other countries. Well known as the host of Pacifica Radio's "Democracy Now," Goodman is also the author of the book "Exception to the Rulers: Exposing Oily Politicians, War Profiteers and the Media That Love Them." She has received numerous awards for her work including the Robert F. Kennedy Journalism Award and the George Polk Award for "Drilling and Killing." She graduated from Harvard University majoring in Anthropology.

### Thom Hartmann

Thom Hartmann is a broadcaster, author and psychotherapist. He won critical acclaim as the author of the book, "The Last Hours of Ancient Sunlight" where, after reading his book, the Dalai Lama invited him to spend a week in Dharamsala. His book "Unequal Protection" won him the Project Censored Award. He has been published over two hundred times in more than fifty different national and international publications. Hartmann received a Master of Herbology degree from Emerson College and a Ph.D in Homeopathic Medicine from Brantridge in England. He currently hosts a daily radio show in Portland, Oregon broadcast on KPOJ, an affiliate of Air America Radio.

### Matthew Simmons

Matthew Simmons is the chairman and CEO of Simmons & Company International. Simmons is the author of the book "Twilight in the Desert: The Coming Saudi Oil Shock and the World Economy." He graduated cum laude from the University of Utah and received a Masters degree with distinction in Business Administration from Harvard Business School. He served as energy adviser to George W. Bush and was an advisor to Vice President Cheney's 2001 National Energy Policy Development Group (NEPDG).

## Terry Lynn Karl

Terry Lynn Karl is a professor of Political Science at Stanford University. She has published widely on transitions to democracy, inequality, human rights and civil wars with special emphasis on the politics of oil exporting countries. Her work includes the books "Bottom of the Barrel: Africa's Oil Boom and the Poor," and "The Paradox of Plenty: Oil Booms and Petro-States." Karl has won numerous teaching and publication awards. She received her Masters and Ph.D in Political Science from Stanford University.

## Richard Heinberg

Richard Heinberg is a journalist, lecturer and educator who has written extensively on ecological issues. He is the author of many published books including "The Party's Over: Oil, War, and the Fate of Industrial Societies" and "Powerdown: Options and Actions for a Post-Carbon World". He lives in Santa Rosa, California and is a core faculty member of New College of California, where he teaches courses on Energy and Society, Culture, Ecology and Sustainable Community.

## Ken Deffeyes

Ken Deffeyes is an author, geologist and Professor Emeritus at Princeton University. He worked at Shell Research Lab and was a colleague of M. King Hubbert. After leaving Shell, he became a Professor of Geology at Princeton University from where he retired in 1998. Deffeyes published two books on the subject of peak oil: "Hubbert's Peak: The impending World Oil Shortage" and "Beyond Oil: The View From Hubbert's Peak." Deffeyes received his Ph.D from Princeton University.

## Steve Donziger

Steve Donziger is a leading attorney and national expert on crime policy and youth violence. He worked as a journalist for United Press International and free-lanced for four years filing more than 150 stories from Central America. He was on the legal team representing the Ecuadorian Plaintiffs against Texaco in the 1990's and now serves as legal advisor to the Ecuadorian legal team. Donziger currently practices criminal defense law and international environmental law in New York City. He received his J.D. from Harvard Law School.

## William Rees

William Rees is a professor at the University of British Columbia and a founding member of the Canadian Society for Ecological Economics. Much of Rees' work is in the realm of ecological economics and human ecology and is best known for his invention of the "ecological footprint analysis." His book, "Our Ecological Footprint," has been printed in English, Chinese, French, German, Hungarian, Italian, Japanese, Latvian and Spanish. Rees was awarded the Senior Killam Research Prize in acknowledgment of his research achievements. He received his Ph.D in Population Ecology from the University of Toronto.

## Michael Economides

Michael Economides is a professor of chemical engineering at the Cullen College of Engineering, University of Houston, and the managing partner of a petroleum engineering and strategy consulting firm. He is the author of numerous professional textbooks, journal papers, articles and books, including "The Color of Oil." Economides appears regularly as a guest and expert commentator on national and international television programs and is the Editor-in-Chief of "World Energy Monthly Review." He holds a Masters degree from the University of Kansas and a Ph.D in Petroleum Engineering from Stanford University.

## Christopher Flavin

Christopher Flavin is the President and CEO of the Worldwatch Institute, an international research organization whose focus is an environmentally sustainable future. He has written extensively on energy strategies and policies, including the book "Power Surge: Guide to the Coming Energy Revolution," in which he describes the potential shape of a post-petroleum energy economy. Flavin appears regularly on radio and television and is active in international policy circles regarding climate change and energy. He graduated cum laude from Williams College, where he studied economics, biology and environmental studies.

## Tundi Agardy

Tundi Agardy is an internationally renowned expert in marine conservation, with extensive field experience in Africa, Asia, the Caribbean, the Mediterranean and North America. Agardy specializes

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in coastal planning and marine protected areas and has published widely in these fields, including the book "Marine Protected Areas and Ocean Conservation." She received her Ph.D in Biological Sciences and Masters in Marine Affairs from the University of Rhode Island. She is currently the Executive Director of South Seas, an independent policy group based in the Washington D.C. area.



## Credits

Director, Producer, Screenwriter	James Jandak Wood
Executive Producer	Steve Michelson
Co-Producers	Jennifer Jandak Wood Joanne Shen
Original Music	John DeBorde
Director of Photography	Sharon Anderson
Sound Design	Pamela Spitzer
Editors	Pamela Spitzer Sharon Anderson James Jandak Wood
Motion Graphics Design	Yussef Cole
Original Artwork	Steve Heynen
Narration	Natalia Bortolotti
Assistant Producer	Emily Perez
Sound Assistants	Todd Holm Cat Nyhan
Additional Sound Design	Dragan Petrovic
Sound Mixing	Buddy Saleman Peter Deutcher
Translation	Brenda Hernandez Sabine Kaluaratchi
Transcription	Candacy Taylor Katie Winters Sabine Kaluaratchi
Cinematography Consultant	Frazer Bradshaw



Research

James Jandak Wood  
Joanne Shen  
Yussef Cole  
Jennifer Jandak Wood

Website Design

Roughstock Studios  
Alan Zucker

Legal Services

Richard Lee

Insurance Services

Charles Whelan

Bookkeeping

Maria Panzieri

Consulting

Joanne Parsont  
Lauri Tanner  
Catherine Butler

Dubbing services

Dub Express  
California Video

Sound recording

Polk Street Recording

Production Services

Lobitos Creek Ranch

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City of San Francisco/San Francisco Film Commission  
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City of Beaumont, Texas

Featuring

Tundi Agardy  
Guy Caruso  
Cindy Cohn  
Kenneth Deffeyes  
Steve Donziger  
Emeka Duruigbo  
Michael Economides  
Christopher Flavin

Amy Goodman  
Thom Hartmann  
Richard Heinberg  
Santiago Kawarim  
Terry Lynne Karl  
Michael Klare  
Kavita Ramdas  
William Rees  
Matthew Simmons  
Lynne Twist

## Archival Footage and Stills

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