

UNSEEN ENEMY

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CNN FILMS, SIERRA/TANGO PRODUCTIONS & VULCAN PRODUCTIONS

In coproduction with WESTDEUTSCHER RUNDFUNK KÖLN in collaboration with ARTE

Present

U N S E E N E N E M Y

A film by Janet Tobias

Running Time: 90 minutes

————— WORLD PREMIERE —————



CPH:DOX*

UNSEEN ENEMY
SYNOPSIS



In the 21st century, we are all connected. Population growth, mass urbanization, deforestation, climate change and increased travel have dramatically increased the risk that familiar diseases will spread and mutate, and new ones will emerge. As people enter new spheres of biodiversity, they come into closer contact with other species, increasing the risk of viruses jumping from animals to humans, and then spreading more widely.

Unseen Enemy is an essential exploration of the reasons why 21st-century populations are experiencing a rash of diseases that were once only outbreaks, but have now become full-blown epidemics. This increased risk that we face, and the ways society and individuals can work together to reduce that risk, are explained to the public through the case studies of three epidemics: Ebola, influenza and Zika.

Moving across the globe, we meet doctors, disease detectives and everyday people who have stepped into the horror of an epidemic and emerged deeply changed. Epidemics bring out the best and worst of human behavior, with effects reaching far beyond the tolls of sickness and death.

On the ground during the Ebola epidemic in West Africa, we witness the human and economic costs of epidemics, the global hysteria, a poor international response — and how global economic inequality drives epidemics.

Examining our yearly influenza epidemics as well as the history of influenza pandemics, we learn that the flu is a disease that causes experts sizeable fear. Yet, influenza is often misunderstood by the public. Even in an average year, the virus can kill between 250,000 and 500,000 people globally, with new strains constantly emerging.

Finally, through the Zika outbreak in Brazil, we see how a disease can move across the world, endangering particularly vulnerable targets: pregnant women and infants. Through the reach of Zika, we learn how climate change and travel can affect the spread of disease.

What these epidemics have made clear is that we, as a society, are woefully unprepared for a major pandemic. As stated by Dr. Larry Brilliant, *“Two speeding trains are racing toward each other, both fueled by modernity: one represents the increasing likelihood of a pandemic brought upon us by our own behavior; the other carries new tools and technologies that could help us find viruses and bacteria early enough to prevent a global outbreak. The choice is ours as to which of those speeding trains wins.”*

As individuals, we connect with thousands of other people every day; people we know well and others whom we only meet once. Each person is a part of a global web of connection that quickly leads from Vancouver to Hong Kong, New York to Liberia, Leipzig to New Delhi and from Rio de Janeiro to Kinshasa. Our connection can be either incredibly dangerous or a powerful force for good. Now more than ever, we need to put the “public” back in Public Health, for it is only by uniting our collective strength that we will all be truly safe. As it turns out, we are all the frontline in global health.



NETWORK OF **HIV** POSITIVES IN SIERRA LEONE
In collaboration with National **HIV/AIDS** Secretariat & Partners



WELCOME

Baron Peter Piot

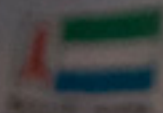
TO SIERRA LEONE
WE SHOULD

CLOSE THE GAP ON **HIV** AND EBOLA

Prevent Infection

Go for Treatment

Stop Stigma



UNSEEN ENEMY
CHARACTER
BIOS

DR. LARRY BRILLIANT: Larry Brilliant was the youngest member of the WHO Smallpox Eradication Team, working in India in the 1970s. When Larry came back to the US, he co-founded the first online community, THE WELL, falling in love with the possibilities of technology. On the side, he was Jerry Garcia's and Mama Cass' doctor as they struggled with heroin addiction. Brilliant's accomplishments from then include heading Skoll Global Threats Fund, founding Google's philanthropic arm, acting as a bio-surveillance advisor to President Barack Obama, advising Steven Soderbergh on the film *Contagion*, and winning the TEDPrize in 2006.

DR. GEORGE GAO: Dr. George Gao is the Deputy Director-General for research at China CDC and an expert in zoonosis. Dr. Gao heads the Key Laboratory of Pathogenic Microbiology & Immunology in the Institute of Microbiology at the Chinese Academy of Sciences, one of the world's leading research groups focused on emerging and re-emerging viruses and bacteria. Dr. Gao has led international efforts in disease preparedness and emergency responses to pandemic influenza, including H5N1 avian influenza and swine streptococcus, and he was one of the leader's of China's Ebola lab in Sierra Leone. Currently, his Beijing lab attracts students across the world, from Nigeria to Bangladesh. Together, they research how animal to human transmission happens with diseases such as influenza, Ebola, and MERS.

Laurie GARRETT: Laurie Garrett is a Pulitzer prize-winning science journalist and writer of a number of books, including the *The Coming Plague* and *The Betrayal of Trust: The Collapse of Global Health*. She was awarded the Pulitzer Prize for Explanatory Journalism in 1996 for a series of works published in *Newsday*, chronicling the Ebola virus outbreak in Zaire. Since the 1990s, Garrett has tracked outbreaks and epidemics worldwide, noting the insufficient responses from global public health institutions in many countries. In 2004, Laurie Garrett left *Newsday* to join the think tank staff of the Council on Foreign Relations in New York. She now runs the Council's Global Health Program, and serves as the Senior Fellow for Global Health.

HEIDI LARSON: Heidi Larson, PhD, is an anthropologist and Associate Professor at the London School of Hygiene & Tropical Medicine where she leads the Vaccine Confidence Project, researching and mapping issues around public trust in vaccines around the world. She previously led UNICEF's global immunization communication and is an expert in rumour analysis and management. Dr. Larson has worked to address polio vaccine resistance issues in Nigeria and Pakistan as well as issues around vaccine hesitancy and refusal globally. During the Ebola epidemic, Larson coordinated the community engagement, rumour management and social science work around one of the Ebola Vaccine trials in Sierra Leone under the EU-funded EBODAC initiative.

DR. VANESSA VAN DER LINDEN: Dr. Vanessa Van der Linden is a pediatric neurologist from Recife, Brazil. With the help of her mother, she was among one of the first to make the connection between the explosion of microcephaly in the country and the rampant spread of the Zika virus. Dr. Van der Linden splits her time between three different institutions in Recife, many of which are over capacity and in face of funding difficulties. Since the link between Zika and microcephaly was discovered, Dr. Vanessa Van der Linden has been collaborating with different physicians, scientists, researchers and governments to bring attention to the issue, and to improve the research and resources around Zika-related microcephaly.

DR. PETER PIOT: In 1976, Peter Piot, a 27-year-old Belgian doctor and microbiologist, and his team were part of an international group of American and Belgian scientists credited with co-discovering the Ebola virus in Zaire, now known as the Democratic Republic of the Congo. After his work on Ebola, Piot quickly found himself working on another unknown virus that would turn out to be HIV-AIDS, the biggest pandemic of our time. The director of UNAIDS for 14 years, Piot currently heads the London School of Hygiene & Tropical Medicine. He led the School's response to the recent Ebola epidemic, working with governments and international agencies.

UNSEEN ENEMY
**CHARACTER
BIOS**

DR. BARBARA RATH: Barbara Rath, MD, PhD is a pediatrician and infectious disease specialist with profound experience in clinical care and translational research in Europe, the US and Latin America. Dr. Rath is co-founder and chair of the Vienna Vaccine Safety Initiative (ViVI), an international think tank and non-profit organization focused on infectious disease research and communication. With a passion for helping children in challenging situations, she developed ad-hoc programs assessing the health needs of displaced and refugee children after Hurricane Katrina in New Orleans and during the peak of refugee arrivals to Berlin, Germany in 2015/16. Dr. Rath attended medical school in Germany, Spain and the US, and obtained her doctoral degrees in Switzerland and France. In addition to an infectious disease fellowship at Stanford, she received pediatric residency and infectious disease subspecialty training at Duke and Tulane Universities, USA. Dr. Rath is honorary professor at the University of Nottingham School of Medicine, UK, and member of the board of the International Society for Influenza and Other Respiratory Viruses (ISIRV).

MARK SMOLINSKI: Mark is the Chief Medical Officer and Director of Global Health Threats at Skoll Global Threats Funds. Mark moves around the world setting up mobile disease tracking systems, from Brazil to Thailand, from Tanzania to the US. He launched Google Flu Trends when he worked at Google.org, and then helped create Flu Near You, a public influenza-like symptoms tracker in the US, which he has now linked to Influenzanet.eu in Europe. Mark also works to track the intricate and ever-evolving global connection between animals, humans and the environment. During the Ebola crisis, Mark worked to rally Silicon Valley to use their economic resources and technological know-how to help fight Ebola and future epidemics.

DR. SOKA MOSES: Dr. Moses is a frontline healthcare worker who ran the Ebola treatment unit at JFK and then later at MOD-2 in Monrovia, Liberia, during the 2014 Ebola epidemic. His work and determination mirrors his motivational drive to drastically improve his country's healthcare system. Dr. Moses was only two years out of finishing his medical internship when he was put in charge of the ETU at JFK Hospital, the largest hospital in Monrovia. He was one of a few dozen practicing physicians in the country at the time. In the fall of 2015, Dr. Moses attended the London School of Hygiene & Tropical Medicine where he received his Masters in Science. He is currently in Liberia conducting vital research on the lingering effects of Ebola on survivors, and still continues to work as a general practitioner.

PETER SANDS: Peter Sands is a British banker, the former CEO of Standard Chartered Bank, a position he held from November 2006 to June 2015. He is now the lead non-executive board member of the Department of Health in the United Kingdom. He was the Chair of the International Commission on a Global Health Risk Framework for the Future under the auspices of the National Academy of Medicine. He is very vocal about the need for better financial and economic preparedness against emerging infectious disease threats. Mr. Sands graduated from the Oxford University and holds a Master in Public Administration from Harvard University's Kennedy School, where he is now a Senior Fellow.

GWEN & TERRY ZWANZIGER: Gwen and Terry Zwanziger live in Owatonna, Minnesota. In December 2014, their 17-year old daughter, Shannon, came down with the flu. Seven days later, Shannon Zwanziger died in her mother's arms from Influenza A. In their wildest dreams it never occurred to Gwen and Terry that their youngest daughter would die a premature and unwarranted death. Gwen and her family represent the dire need for future solutions, including better and more available diagnostics, a better flu vaccine, the development of a successful universal flu vaccine, and more public preventive action against our most common epidemic. Their loss and Shannon's story is a constant reminder that the flu is a real threat that needs to be taken a lot more seriously.

DECONTEE DAVIS: Only in her early 20s, Deontee and her fiancé contracted the Ebola virus after caring for one of his sick aunts in 2014. Everyone who had been caring for Deontee's in-law, including Deontee's fiancé, also fell sick. Eight out of 10 of Deontee's in-laws died. Sadly, her fiancé did not survive the Ebola Treatment Unit. After her full recovery, Deontee Davis managed a quarantine center for children who had been exposed to Ebola by family members or friends, giving them hope, friendship and love. Nowadays, she works as a Leader for Young Life Africa, a non-denominational Christian ministry.

DR. ADOLFO GARCIA-SASTRE: Dr. Garcia-Sastre is Professor in the Department of Microbiology and Director of the Global Health & Emerging Pathogens Institute at Mount Sinai School of Medicine in New York. His research focuses mostly on the influenza virus, including host factors and a potential universal flu vaccine. Dr. Garcia-Sastre is also Principal Investigator for the Center for Research on Influenza Pathogenesis (CRIP), one of five NIAID Centers of Excellence for Influenza Research and Surveillance (CEIRS).

UNSEEN ENEMY
**CHARACTER
BIOS**

VERONICA MARIA DOS SANTOS: Veronica Maria dos Santos is a Brazilian mother of four, living in one of the poorest neighborhoods in the outskirts of Recife, Brazil. A month before her youngest child's birth, her doctor told her baby Joao would be born with microcephaly, most likely resulting from a Zika infection. After Joao's birth, Veronica had to quit her job in order to prioritize his health and development. Nowadays, Veronica spends her time in and out of doctor's offices with her son Joao, traveling long hours by bus to get her son the care he needs. Due to the severity of Joao's case, finding the best care for him has been challenging. Veronica joined a tightknit group of women who, like her, are new mothers to infants with Zika-related microcephaly. They meet several times a week at different clinics and group therapy sessions, where they provide support, friendship and strength to each another.

DR. ARNAUD TARANTOLA: Arnaud Tarantola is a French Medical Doctor who spent several years working on preventing bloodborne occupational infections in France and West Africa before setting up early warning systems for epidemic diseases. From 2011 to September 2016, he was the Head of the Epidemiology and Public Health Department at the Institut Pasteur du Cambodge in Phnom Penh, Cambodia. There, he led EID investigations and clinical epidemiology and research on avian influenza, working alongside local communities and both market & healthcare workers to provide expertise to national authorities. He is now working in New Caledonia as the Head of the Epidemiology Unit at the Institut Pasteur de Nouvelle Calédonie.

JOHN CONNOR: John Connor is an Associate Professor of Microbiology at Boston University School of Medicine and an investigator at the National Emerging Infectious Diseases Laboratory (NEIDL). He received a B.A in Chemistry from Swarthmore College in 1994, and a Ph.D. in Pharmacology in 1999 from Duke University. Following a postdoctoral fellowship with Douglas Lyles at Wake Forest University, he moved to Boston University continue his studies of RNA viruses. His laboratory research focuses on viruses that are associated with high fatality diseases such as Ebola, Marburg and Lassa. Within this focus, his laboratory has participated in the collaborative development of new diagnostic platforms for detecting highly fatal pathogens at the point of need and the identification of critical steps of virus replication that can be targeted to block viral replication. At the NEIDL, Dr. Connor leads a team of researchers and collaborators who are interested in developing new vaccines, antiviral drugs and diagnostics for the detection and treatment of viruses like Ebola. As part of a large collaborative group, his laboratory is helping to develop new diagnostic tools that are aimed at making it easier to identify individuals infected with viruses that cause hemorrhagic fevers.



UNSEEN ENEMY
DIRECTOR'S
STATEMENT

I remember it was in 2012 during a conversation with my colleagues on the Drug Forum of the National Academy of Medicine that I first started thinking about the idea of making a film on the topic of epidemics. For a long time, my colleagues had encouraged me to use my experience and skills as a filmmaker to tackle different important issues in health. When I began to think about the different issues I cared about, one question stuck to me: “What is it about the 21st century that makes us so particularly vulnerable to epidemics?” I felt compelled to find the answers to that question.

We started off with a film that was set to be more abstract, focusing on individual epidemics in the past, like Smallpox, SARS, and the 20th-century Ebola outbreaks, and then taking each of them apart to observe what it would mean now with increased travel, urbanization and population growth. But when the Ebola epidemic struck West Africa in 2014, our storytelling suddenly shifted gears and we found ourselves in the middle of one epidemic after the next. There was no longer anything abstract about our story.

“What is it about the 21st century that makes us so particularly vulnerable to epidemics?”

In terms of my directorial approach, I wanted the film to illustrate the urgency with which we should be paying attention to emerging outbreaks around the world. And just as importantly, I really wanted to honor the individuals on the frontline, both patients and healthcare workers. We watched

dedicated doctors and nurses, who pushed forward under very challenging circumstances, sometimes risking their lives in the fight against infectious diseases. To convey their dedication and bravery, we decided to add more character-driven elements to our story arc, following each of our characters through their daily lives as they fought to better understand, control or end the epidemics around them.

Although I had produced long-form news pieces on health in the past, this was the first time that I felt I was truly combining my parallel passions for medicine and storytelling through film. As a documentary filmmaker, you want people to fully understand the issue you choose to tackle. Translating scientific and medical research into understandable concepts isn't always an easy task, especially considering the complexity and diversity of the topics in question. And so one of the biggest challenges we faced was

figuring out how to take a big idea with very complex parts (and three very different diseases) and present it in a way that people understand it well without feeling bogged down or overwhelmed. Ultimately, we set out to create an impactful film where people would come out feeling like they've understood and learned more about the issue, and about how critical it is to understand these issues in the 21st century.

I walked away from working on this film with a deep understanding that what I do affects the people around me, everyone from loved ones to passers-by. I could sit next to a child, a grandmother, a man undergoing cancer treatment and give them the flu (or any other disease) and hospitalize or kill them without even knowing it. Each of us have a role to play, and it won't work unless we all contribute.

One of the things that surprised me the most during the making of this film was just how easy it has become for anyone to become involved in the fight against epidemics. The choices we make by staying at home when we are sick, by washing our hands, by getting the right vaccinations, and relying on trustworthy informational sources are what make the difference between sickness and health for ourselves, our families, and our communities. In addition to that, the work of people like Mark Smolinski brings the possibility of using mobile phones to directly involve communities in rapid disease detection, using 21st-century technology against the very dangers of our 21st century. So what might save us from the next epidemic could already be in all of our pockets.

Making this film and spending time with our characters made me understand that when a disease hits, a doctor on the frontline in Liberia isn't just Liberia's frontline, a mosquito sprayer in Recife isn't just Brazil's frontline, a scientist in China isn't just China's frontline... each of them are all of our frontlines. As Dr. Soka Moses says, “If one place isn't safe, none of us are safe.” This means we must care about how well prepared a young doctor in Monrovia is. So I hope this film conveys how important it is to train and empower people around the world. Because it is only collectively that we will be able to use the assets of the 21st century against the dangers. If we don't all do our part, we can't keep each other safe.

— Janet Tobias



UNSEEN ENEMY
THE MAKING OF

When Director Janet Tobias decided to make an issue-based film about the threat of epidemics in the 21st century in 2012, she had no idea that, over the course of production, she would come face to face with the opportunity to document not just one, but two major epidemics.

The initial idea was to look at the history of pandemics, so one of the team's first trips was to the Democratic Republic of the Congo with Dr. Peter Piot, who, as a young researcher, was sent there to identify a strange new virus back in the 1970s. While the Unseen Enemy crew were filming at the location of the very first recorded outbreak of Ebola, new reports of a mysterious illness were emerging from a small rural village in Guinea. No one knew at that time that these first few remote cases would later be revealed to be the beginning of an Ebola epidemic that would spread to three continents.

For Tobias and her production team, it was obvious: they had to go to West Africa. But getting there wasn't easy. Filming in a hazard zone meant overcoming logistical challenges and deep concerns over safety. The crew underwent specialized Ebola training before travelling to West Africa. As borders were being closed and international concerns and precautions heightened, the team found themselves experiencing first-hand the global effects of an epidemic before they had even landed in West Africa.

Producer Rogger Lopez recalls the difficulty he encountered in securing travel to Liberia and Sierra Leone for the crew, due to limited flight operations into the area. Unseen Enemy's crew spent an intense 10-week embed, splitting into teams in Liberia and Sierra Leone. Lopez recalls that one of the biggest challenges in organizing shoots in West Africa was the lack of control they had over their circumstances... Despite having taken major safety precautions, the fear of becoming sick was ever present. Contingency plans were put in place for as many different scenarios as possible. On the ground, the crew received help from specialized personnel to make sure everyone stayed safe and healthy while still gaining access to incredible stories. It was there that the team met the inspiring young doctor who later became one of the film's main characters, Dr. Soka Moses.

At this time, Paul G. Allen's Vulcan Productions swiftly came on board as a co-producer of the film as part of Mr. Allen's decisive and catalytic leadership during the 2014 West Africa Ebola outbreak and his commitment of \$100 million to fight the disease.

Just as the Ebola epidemic took the film into uncharted territory, two years later the Unseen Enemy crew was pulled into another emerging epidemic: Zika. Similar to their West African experience, going to Brazil involved safety debriefs, and preparation and coordination with a local fixer to find the best interviews for their planned shoot in Recife. In Brazil, it was mosquitoes that were the focus of the team's safety training. .

It was during these embeds in outbreak epicenters that the production team truly saw how diseases affect both individuals and entire nations. The heartwarming story of a mother in Brazil learning to cope with the realities of raising a baby with microcephaly... The tragedy of an American family unexpectedly losing their youngest daughter to the flu in Minnesota... The bravery of a doctor stepping up to treat Ebola victims amid the threats of stigma and social unrest.

In addition to being at ground zero during the Ebola and Zika outbreaks, the production team interviewed and shot candid footage of some of the most respected experts on the subject of epidemics, such as Dr. Larry Brilliant, Dr. Peter Piot, Laurie Garrett, Heidi Larson, Peter Sands, Dr. Mark Smolinski, Dr. Adolfo Garcia-Sastre, John Connor and Dr. Arnaud Tarantola – many of whom have experienced epidemics first-hand and are currently working to improve scientific research and increase public knowledge on these infectious disease outbreaks.

The evolution of the film's story arc – from a retrospective look at the history of epidemics, the urgency of paying attention to emerging outbreaks, to a real-time look at outbreaks and epidemics as they occur – took the production on a three-year journey chasing diseases and innovative research in Asia, Africa, North America and South America



UNSEEN ENEMY
PRODUCTION
TEAM

JANET TOBIAS | DIRECTOR | PRODUCER | WRITER

Janet Tobias is an Emmy-Award winning filmmaker with parallel careers in medicine/technology and film/television. Tobias started her film and television career at CBS' 60 Minutes as Diane Sawyer's associate producer. She then worked as a producer at ABC News' Prime Time and as the editorial producer for ABC's legal and criminal justice coverage. Later, she worked as a national producer at Dateline NBC, and then as an executive producer at VNI (which became New York Times Television). After working at the networks, she moved to PBS where she created and executive produced the Emmy Award-winning PBS program Life 360. In 2001, Tobias founded her own television/film production company Sierra/Tango Productions. In the last decade, Sierra/Tango has produced over a dozen documentaries on social issues ranging from medical ethics to the life of teenagers in America. Tobias made her theatrical debut in 2012 with the documentary feature *No Place On Earth*, which debuted at the Toronto International Film Festival and was later nominated for Best Feature Documentary Screenplay by the Writers Guild of America. Janet Tobias is also an adjunct assistant professor of Medicine at Mount Sinai School of Medicine and a research professor of Global Public Health at NYU. She was a member of the Drug Forum of the Institute of Medicine, National Academy of Sciences from 2009 to 2015.

ROGGER LOPEZ | PRODUCER

Rogger Lopez migrated from Peru in 1999 and earned his Bachelor degree in Business Administration with a concentration in public accounting. After 3 years of working in the accounting field for Adams & Salter, Rogger joined Sierra Tango Productions as a producer. He has worked on multi-year corporate campaigns, high-impact videos, and feature films such as *Buck* (2011) and *No Place On Earth* (2012).

PETER KLEIN | PRODUCER

Peter Klein is an Emmy Award-winning journalist and filmmaker, and an Associate Professor at University of British Columbia's Graduate School of Journalism. Klein heads UBC's Global Reporting Centre, a program that produces major works of journalism on under-covered issues around the world. In 1999, Klein worked as a producer for CBS News' *60 Minutes* where he won an Emmy Award for his 2000 investigation into the former Soviet Union's smallpox weapons program. An early proponent of small handheld cameras, Klein continues to direct and write documentaries for a host of other broadcasters throughout the world.

MICHAEL ERHENZWEIG | PRODUCER

Michael Erhenzweig is a film producer with 20 years of experience in the field. He is currently based in San Francisco, where he works as a Supervising Producer for ITVS. Previously, he worked on documentaries such as *The Royal Road* (2015), *Here's Looking At You Boy* (2007), and *Paragraph 175* (2000).

CESAR CHARLONE | DIRECTOR OF PHOTOGRAPHY

A native of Uruguay, Mr. Charlone attended film school at Sao Paulo's Escola Superior De Cinema and began his career shooting commercials and documentaries in Brazil and Sweden. Since then, he has become an Academy Award-nominated cinematographer and director, known for *City of God* (2002), *The Constant Gardener* (2005) and *Blindness* (2008).

ZAC NICHOLSON | DIRECTOR OF PHOTOGRAPHY

Zac Nicholson is a director and cinematographer originally from New York City. His work spans the medium – from narrative to documentary, music video and commercial production. Zac first collaborated with Janet Tobias on her documentary *No Place on Earth* in 2012. He most recently directed and shot a short documentary in Cuba, *Heard In Havana*, and was the cinematographer on a 16mm short film *Observatory Blues* starring Tom Schiller and Amy Sedaris. Zac resides in Brooklyn, NY.

ERIN BARNETT | EDITOR

Erin Barnett is a documentary editor with a knack for shaping complex narratives and social issues into compelling stories. Her most notable feature documentary work includes Alex Gibney's *Steve Jobs: The Man in the Machine* (Magnolia Pictures), *Food Chains* (Ro*co Films, Netflix, 2014), and *(Dis)Honesty: The Truth About Lies* (Bond 360, CNBC, iTunes).

JOHN PISCITELLO | ORIGINAL MUSIC

John Piscitello is an American composer whose scores have been called "sublime" and "exquisite." His recent work includes the score for *Dinner with the Alchemist*, an acclaimed original composition for the documentary *No Place On Earth*, additional music for *The Short Game*, commercials for Carhartt and Disney Books, and composition for the 2017 documentary *Becoming Bond*.

NAIMA VOGT | ASSOCIATE PRODUCER

Naima Vogt is a Brazilian-Canadian associate producer who began working for Janet Tobias at Sierra/Tango Productions in 2015. *Unseen Enemy* is the first feature-length documentary she has worked on.

UNSEEN ENEMY
PRODUCTION
TEAM



At Sierra/Tango Productions we believe that story has the power to inspire change. With every film project our goal is to open a window on a world. We aspire to tell stories that motivate audiences to talk, care, and act. We've produced over 20 documentaries on subjects as diverse as: the Holocaust, the American criminal justice system, advances in neurosurgery, and teenager in the 21st century.

Sierra/Tango's most recent theatrical film, *No Place On Earth*, the story of the longest uninterrupted survival underground, debuted at the Toronto Film Festival, and was released in the US by Magnolia Pictures, and in Germany by Senator.

Sierra/Tango is currently in production/development on films about the world memory champions and the US juvenile justice system.

Vulcan Productions is dedicated to the power of storytelling. We produce content and large-scale campaigns that entertain, inspire and change the way people understand the world's toughest challenges. Our films, television series and digital content spark ideas and turn action into measurable impact. Founded by Paul G. Allen and Jody Allen, Vulcan Productions creates content across all platforms, and spotlights Mr. Allen's work in wildlife, science, climate, oceans, education, technology, current social issues, history and the arts.

Our award-winning projects include *The Ivory Game*, *Racing Extinction*, *Naledi: A Baby Elephants Tale*, Academy Award®-nominated *Body Team 12*, *Mind of a Giant*, *We the Economy*, *We the Voters*, *Ocean Warriors*, *#ISurvivedEbola*, *Girl Rising* and *The Blues*. Upcoming releases include *STEP* and *Unseen Enemy*. For information on Vulcan Productions and our leadership in generating change through impact storytelling, visit vulcanproductions.com



UNSEEN ENEMY
**FULL CAST
& CREDITS**

CNN FILMS, SIERRA/TANGO PRODUCTIONS & VULCAN PRODUCTIONS
In coproduction with WESTDEUTSCHER RUNDFUNK KÖLN in collaboration with ARTE

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Amy Entelis
Dr. Sanjay Gupta
Sabine Rollberg
Carole Tomko
Jeff Field
Jody Gottlieb

SUPERVISING PRODUCER

Courtney Sexton

PRODUCED BY

Rogger Lopez
Janet Tobias
Peter Klein
Michael Ehrenzweig

ADDITIONAL EDITING

Zac Nicholson
Frederick Shanahan

MUSIC BY

John Piscitello

CINEMATOGRAPHY

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Zac Nicholson

EDITED BY

Erin Barnett

WRITTEN & DIRECTED BY

Janet Tobias

NARRATED BY

Jeffrey Wright

ASSOCIATE PRODUCER

Naima Vogt

PRODUCTION MANAGER

Kimberly Nyhous,
Vulcan Productions

PRODUCTION ASSISTANTS

Tom Hallett, Amory Parks

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Cat Harris
Katrina Pastore
Clay Adamczyk
Simon Dopslaf
Toska Hartmann
Dylan Hansen-Fliedner
James Casteel
Jeff Clanet

CAST

Dr. Larry Brilliant
John Connor
Decontee Davis
Dr. Adolfo Garcia-Sastre
Laurie Garrett
Dr. George Gao
Heidi Larson
Dr. Soka Moses
Dr. Peter Piot
Dr. Barbara Rath
Peter Sands
Veronica Maria dos Santos
Dr. Mark Smolinski
Dr. Arnaud Tarantola
Dr. Vanessa Van der Linden
Gwen Zwanziger
Terry Zwanziger

BRAZIL UNIT

Field Producer: Naima Vogt
Additional Photography: Fabio Burtin
Camera Assistant: Robson Guimaraes
Sound Mixer: Pedrinho Moreira, Fernando Cavalcante
Fixer: Gabriela Fonseca

CAMBODIA UNIT

Additional Photography: Christopher Beauchamp
Camera Assistant: Ly Sochiet
Sound Mixer: Shiho Miyazawa, Saman Ly
Fixer: Sonny Chhoun, David Sarath Kahn
Location Coordinators
Dr. Didier Fontenille, Lau Sang Vuth

CHINA UNIT

Field Producer: Joy Le Li
Additional Photography: Paul Morris, Xu Shi
Camera Assistant: Matias Wong
Sound Mixer: Qiao Xin
Location Coordinator: Doris Wang
Asia Works: Rogan Roberts

ENGLAND UNIT

2nd Unit Director: Zac Nicholson
Field Producers: Michael Ehrenzweig, Maz Lewis
Production Coordinator: Tina Pawlik, Geoff Parsons
Production Assistants: Rob Fox, Lauren Thompson, Russel Azueta
Additional Photography: Christopher Beauchamp, Chris Clarke,
Sean Kirby, Peter Simonite, Will Wintercross
Camera Assistant: Bill Cargill, David Harcombe,
Daniel Henderson, Ravi King
Sound Mixer: Tamara Stubbs
Gaffer: Sol Saihati
Lighting Grip: Howard Davidson
Key Makeup: Sian Duke
Car Rental: Matt Snowball Music Limo
Studio Rental: Spectrecom Films Ltd
Production Company: Bluefin TV, Unanico Ltd

UNSEEN ENEMY
**FULL CAST
& CREDITS**

GERMANY UNIT

Field Producer: Claus Wehlisch
Additional Photography: Yousif Al-Chalabi,
John Kelley, Jeff Clanet
Sound Mixer: Cesar Fernandez Borrás, David Hilgers

SINGAPORE UNIT

Additional Photography: Siew Yaw Hoong
Camera Assistant: Osman Sarip
Sound Mixer: Jason Yun
Location Coordinators: Asia Works

SWITZERLAND UNIT

Additional Photography: Tangi Zahn
Field Producer: Ben Berkowitz, Anthony Levene, Grace Vouillamoz
Sound Mixer: Magnus Macedo, Mathias Filipona
Production Company: Amata SA

THAILAND UNIT

2nd Unit Director: Zac Nicholson
Field Producers: Naima Vogt, Malin Pom Pongsapipatt
Additional Photography: Sean Kirby, Naratip Promkert
Camera Assistant: Kamol Tangprasert
DIT: Samak Buapradit
Sound Mixer: Apichai Ketkhong, Rob McCrory
Fixer: Tewan Chatdamrong

UNITED STATES UNIT

2nd Unit Director: Zac Nicholson
Field Producers: Benjamin Berkowitz, Naima Vogt
Production Assistants: James Chan, Amory Parks,
Madeleine Pron, Ryan Monte
Additional Photography: Peter Simonite
Camera Assistant: John Baker, Jeff Clanet, Bayley Sweitzer,
Robson Guimaraes, Michael Lindemuth, Willow Muscovitz
Sound Mixer: Luke Allen, Brian Buckley, Peter Dodenhoff,
Matthew Geldof, Sam Kashefi, Jeremy Katz, Ross Matthei, Micah
Mucklow, Phil Turner, Jeremy Sheeler, Laura Sinnott, Edward
Chick, Jeff Kronholm, Rene Greblo, Mike Olson, Arthur Yee
Key Grip: Brook Johnson
Gaffer: Kaya Dillon, James Kumarelas
Key Makeup: Kristen Coleman
Studio: Beyond Pix Bayshore Studio

WEST AFRICA UNIT

Field Producers: Aldo Kane, Nurudeen Sanni
Additional Photography: Dennis Porter, Nurudeen Sanni
Camera Assistants: Robson Guimaraes
Sound Mixer: Mick Duffield, Tamara Stubbs
Fixers: Sullivan Kallon
Consultant: Lise Rehwaldt, Stephen Douglas

Digital Intermediary: Harbor Picture Company
Digital Intermediate Producer: Matt Caruso
Colorist: Roman Hankewycz
Senior Conform Artist: Chris Mackenzie
Conform Artist: Dylan Ball
Supervising DI Producer: Kevin Vale
DI Assistants: Andrew Minogue, Frederick Agyemang
Support Engineers: Gautam Sinha, Mark Dellas

Post-Production Sound Services by: Harbor
Re-Recording Mixers: Tony Volante, Allan Zaleski, MPSE
Supervising Sound Editor: Allan Zaleski, MPSE
Dialogue Editors: Larry Herman & Sylvia Menno
Music Editor: Billy Orrico
Mix Technician: Giuseppe Cappello
Sound Engineer: Avi Laniado
Head of Sound Post Facility: Darrell R. Smith
Post-Production Sound Services by: Harbor

Germany Post-Production House: The Post Republic GmbH
Orchestrator: Jeff Tinsley
Music Scoring Mixer: Erik Swanson
Score Technical Engineer: William Zattára
Score Recorded by: Milton Gutierrez

Orchestrator: Jeff Tinsley
Music Scoring Mixer: Erik Swanson
Animation: NVISIBLE
VFX Producer: Kris Wright
Graphics Supervisor: Chris Lunney
VFX Supervisor: Adam Rowland
Motions Graphic Artist: Tom Barry, Gonzalo Sanchez
Data Animation End Graphic: Beyond Words
Titles and Additional Graphics: Sebastian Smulders
Photographic Stills By: Christopher Beauchamp

Archival Producer: Naima Vogt
Archival Researchers: Amory Parks, Tom Hallett, Bonnie Rowan
Production Accounting: Nancy L. Adams

UNSEEN ENEMY
**FULL CAST
& CREDITS**

Transcription Services: ALTA Language Services, Inc,
AP Portugal Language Services, José Carlos Barreto, Echotext,
MaDactylo, Rev.com, Thomson Translations, Vanan Online

Voiceover Recording Studio: Outloud Audio
Outloud Audio Dialogue Editor: Rodrigo Galvan
Insurance Providers: Barry Cohen, Cohen Partners, LLC
Legal Counsel: Alan Sacks, Melissa Georges,
Frankfurt Kurnit & Selz, PC
Travel Services: Poe Travel
Interns: Umbreen Butt, Wanyee Li, Clea Machold,
Madeleine Pron, Ian Wood

Archival Footage Courtesy Of: ABC News, Agence France-Presse
Amos Roberts, AP Archive, Axiom Images, BBC, Ben C. Solomon/
New York Times, California Nurses Association, CNN, CriticalPast,
C-SPAN, Deep Foods, Inc., Fabien Mouret, FIFA, Framepool,
Footage Farm, Getty Images, Greenpeace, Huntley Film Archives,
Ltd., Institute of Tropical Medicine Antwerp, ITN Source, ITN
Source/Reuters, Julian Simmons, Luigi Baldelli, Dr. Michael
Yorke, NPro+ Aerial Photography, Peter Manning/Sojourner
Media, Pond5, Ruptly TV, Shutterstock, Stephane Legrand, United
Nations, University of South Carolina MIRC, Varney Perry, William
Aumer, Will Wintercross

Archival Photography Courtesy Of: Ashley Gilbertson/Vii/Redux,
The Associated Press, CDC/Betty Partin, CDC/Frederick A.
Murphy, Chien-Chi Chang/Magnum Photos, Evan Abramson, Getty
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Dr. Michael Yorke, Dr. Peter Piot, Sam Tsung/SCMP

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3 Ebola Treatment Unit, Estrella Lasry, GameStop, Owatonna,
GOAL Ebola Treatment Unit, Hastings Ebola Treatment Unit,
Hyperbees Media, Ltd., inSTEDD, Institute of Tropical Medicine,
JFK Ebola Treatment Unit, Kelekula Quarantine Centre, Lights
On Inc., Liman Video Rental, London School of Hygiene &
Tropical Medicine, Médecins Sans Frontières, MOD 1 Ebola
Treatment Unit, Mount Sinai's Icahn School of Medicine,
Mount Sinai's Microscopy CORE Group, Owatonna Senior High,
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Business School, Save The Children Ebola Treatment Unit, Skoll
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Hartkopf, Skoll Global Threats Rarinjinda Wellness Spa Resort,
Roselyne Swig, RumJugle Media, Inc., Sunshine Sachs, Lauren
Asher, Sunshine Sachs, Lauren Leadmon, Sunshine Sachs, TCS,
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U N S E E N E N E M Y





In order to build resilience to the 21st threat of emerging infectious diseases, we're joining the public with key stakeholders of public health: healthcare workers, scientists, businesses, NGOs and government. Together we will:

- **share valuable information that activates healthy families and communities**
- **promote messages of #onehealth to address infectious diseases at their ecological sources**
- **assemble critical support for healthcare workers on the frontlines of global health**
- **mobilize leaders around the world to align to shared preparedness goals**

As we raise awareness about the threat of infectious diseases through our film, Unseen Enemy, we're making it easy for audiences to respond and be part of a more resilient world.

**For partnership and media inquiries
email hello@takesallofus.com**

takesallofus.com

