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Advisory Panel



Jacob Appelbaum is a Staff Research Scientist at the University of Washington Computer Security and Privacy Research Lab (http://seclab.cs.washington.edu/). His research focuses on computer security and privacy with a specific focus in anonymity, censorship resistance, and network filtering. Appelbaum is perhaps most widely known for his involvement with Wikileaks (http://www.guardian.co.uk/commentisfree/cifamerica /2011/oct/11/us-government-secretly-reads-your-email) and as a core member of the Tor project (https://www.torproject.org/). Jacob is also the co-founder of the San Francisco hackerspace Noisebridge (https://www.noisebridge.net).



Susan Herman was elected President of the American Civil Liberties Union (http://www.aclu.org/) in October 2008, after having served on the ACLU National Board of Directors for twenty years, as a member of the Executive Committee for sixteen years, and as General Counsel for ten years. At Brooklyn Law School, she holds a chair as a Centennial Professor of Law, and teaches courses in Constitutional Law and Criminal Procedure, and seminars on Law and Literature, and Terrorism and Civil Liberties. Herman has taught at Brooklyn Law School since 1980. Professor Herman's new book, *Taking Liberties: the War on Terror and the Erosion of American Democracy (http://www.amazon.com/Taking-Liberties-Erosion-American-Democracy*

/dp/0199782547), was published by Oxford University Press in October 2011.



lan Clarke is the founder and coordinator of the Freenet Project (http://en.wikipedia.org /wiki/Freenet); designed to allow true freedom of communication, Freenet was the first decentralized anonymous peer-to-peer network, and a precursor of the "distributed hashtable" data structure. While work on Freenet is ongoing, more recently lan has also been working on the Tahrir Project (https://github.com/sanity/tahrir/wiki/Overview), a distributed decentralized microblogging platform.



Window Snyder is Senior Product Manager, Security and Privacy at Apple Inc. (http://www.appleinsider.com/articles/10/03

/02/apple_recruits_former_microsoft_mozilla_security_chief.html) and the former Chief Security Officer at Mozilla (http://www.usatoday.com/tech/news/computersecurity/2008-06-17-mozilla-window-snyder_N.htm). Prior to her position at Mozilla, she was Senior Security Strategist at Microsoft in the Security Engineering and Communications organization, where she was the security lead and responsible for the signoff on Microsoft Windows XP Service Pack 2 and Windows Server 2003. She also held the position of Director of Security Architecture for @stake (http://en.wikipedia.org/wiki/@stake). She is co-author of Threat

Modeling (http://www.amazon.com/Threat-Modeling-Microsoft-Professional-Swiderski/dp/0735619913), a standard manual on application security.



Nathan Freitas leads the Guardian Project (https://guardianproject.info/), an open-source research and development effort to create secure mobile solutions for activists, human rights defenders and journalists. The project's work includes bringing existing tools such as Tor, Off-the-Record encrypted chat and disk encryption to the Android platform, as well as implementing entirely new applications, such as the SecureSmartCam, working with organizations including the Tor Project, WITNESS and the International Bar Association.



Jason Alan Snyder is a technologist, futurist, innovation catalyst and inventor. Jason is the inventor of JAGTAG (http://www.jagtag.com/) his patents for which were acquired in 2011 by Augme Technologies. JAGTAG the only mobile 2D barcode solution that does not require the consumer to download an application prior to use and the only mobile medium that can successfully deliver optimized multimedia to both standard phones and smart phones. Anywhere a mobile consumer encounters a JAGTAG, they can use their phone to request and receive multimedia content (video, audio, pictures, text) sent immediately to their phone. Jason is also the named inventor on more than 15 patents for new technology products related to social

networking and information serving. Jason has been a Technologist leading the creative development of digital products, applications and services for nearly two decades. Jason has worked as both a technologist and creative director; and has held positions leading Product Design at both AOL and Yahoo!



Sascha Meinrath is the Director of the New America Foundation's Open Technology Institute (http://oti.newamerica.net/). Sascha has been described as a "community Internet pioneer" and an "entrepreneurial visionary" and is a well-known expert on community wireless networks (CWNs), municipal broadband, and telecommunications policy. In 2009 he was named one of Ars Technica's Tech Policy "People to Watch". Leading news sources, including the Economist, the New York Times, the Nation, and National Public Radio, often cite Sascha's work in covering issues related to CWNs and telecommunications policy. He also coordinates the Open Source Wireless Coalition, a

global partnership of open source wireless integrators, researchers, implementors and companies dedicated to the development of open source, interoperable, low-cost wireless technologies. He is a regular contributor to Government Technology's Digital Communities, the online portal and comprehensive information resource for the public sector



Eleanor Saitta is Principal Security Engineer at the Open Internet Tools Project (OpenITP (http://openitp.org/)), directing the OpenITP Peer Review Board for open source software and working on adversary modeling. She is also Technical Director at the International Modern Media Institute (IMMI (http://www.immi.is/)), a member of the advisory board at Geeks Without Bounds (GWoB (http://gwob.org/)), and works on occasion as a Senior Security Associate with Stach & Liu (http://stachliu.com/). She is a founder of the Constitutional Analysis Support Team (CAST), previously co-founded the Seattle-based Public N3rd Area hacker space, and works on the Trike (http://octotrike.org/) and Briar (http://briarproject.net/) projects.



Rebecca MacKinnon is a Bernard L. Schwartz Senior Fellow at the New America Foundation, where she conducts research, writing and advocacy on global Internet policy, free expression, and the impact of digital technologies on human rights. She is author of Consent of the Networked: The Worldwide Struggle for Internet Freedom (http://www.amazon.com/Consent-Networked-Worldwide-Struggle-Internet /dp/0465024424) (Basic Books, January 2012). MacKinnon is also cofounder of Global Voices, an international citizen media network. She also serves on the Boards of Directors of the Committee to Protect Journalists and the Global Network Initiative. Fluent in Mandarin Chinese, Rebecca worked as a journalist for CNN in Beijing for nine years, serving as CNN's Beijing Bureau Chief and Correspondent from 1998-2001 and then

moved to Japan where she was CNN's Tokyo Bureau Chief and Correspondent from 2001-03.



Meredith L. Patterson is an independent researcher whose areas of expertise range from CS-related topics such as database design, data-mining algorithms, complexity theory, computational linguistics, information security, and privacy-enhancing technology systems; to synthetic biology, design of transgenic organisms using low-cost, build-it-yourself lab equipment, and human metabolic system studies; and speculative fiction as a published author of multiple short stories, mostly science fiction. Meredith presented her work (http://books.google.com/books?id=cQwmxry3p3kC&pgis=1) with Dan Kaminsky and Len Sassaman on breaking the Internet's certificate authority system (by creating usable, bogus certificates crafted to exploit ambiguity in X.509 parsing implementations using language-

theoretic security analysis principles) at the Financial Cryptography 2010 conference. She lives and works in Belgium.



Brian Snow joined the National Security Agency in 1971 where he became a cryptologic designer and security systems architect. Brian spent his first 20 years at NSA doing and directing research that developed cryptographic components and secure systems. Many cryptographic systems serving the U.S. government and military use his algorithms; they provide capabilities not previously available and span a range from nuclear command and control to tactical radios for the battlefield. Computer Security, Network Security and strong Assurance were major aspects for these systems. He created and managed NSA's Secure Systems Design division in the 1980s. He has many patents, awards, and honors attesting to his creativity. He was the first Technical Director appointed at the "Key Component" level at NSA, and the only "techie" at NSA to serve in such a role across

three different Directorates. In all of his positions, he insisted that the actions NSA took to provide intelligence for our national and military leaders should not put U.S. persons or their rights at risk. Snow retired in 2006 and is now a Security Consultant and Ethics Advisor.



John Perry Barlow is a retired Wyoming cattle rancher, a former lyricist for the Grateful Dead, and co-founder of the Electronic Frontier Foundation (https://www.eff.org/). Since May of 1998, he has been a Fellow at Harvard Law School's Berkman Center for Internet and Society. He is a recognized commentator on information economics, digitized intellectual goods, cyber liberties, virtual community, electronic cash, cryptography policy, privacy, and the social, cultural, and legal conditions forming in Cyberspace. He also works as a consultant on such matters with the Vanguard Group, DiamondCluster Exchange, and the Global Business Network. He is also a member of the External Advisory Council of the National Computational Science Alliance.



Laura Poitras was nominated for an Academy Award®, an Independent Spirit Award and an Emmy for *My Country*, *My Country* (POV 2006) a film about life for Iraqis under U.S. occupation. Her 2010 film *The Oath*, about two Yemeni men caught up in America's War on Terror, won the "Excellence in Cinematography Award for U.S. Documentary" at the 2010 Sundance film festival and was nominated for an Emmy Award for outstanding investigative journalism. Poitras is the recipient of a Guggenheim Fellowship and a Media Arts Fellowship from the Rockefeller Foundation/Tribeca Film Institute. She is also the recipient of a 2012 MacArthur Fellowship (http://www.macfound.org/fellows/874/). She has attended the Sundance Institute's Documentary Edit and Story Lab as both a fellow

and creative advisor. She is currently working on the third part of a trilogy of films (http://www.praxisfilms.org/) about America post 9/11. The third film will focus on how the War on Terror increasingly focuses on Americans through surveillance, covert activities and attacks on whistleblowers. Her work was included in the 2012 Whitney Biennial, where she organized a "Surveillance Teach-In (http://whitney.org/WatchAndListen /Exhibitions?play_id=722)" with Jacob Appelbaum and William Binney. She is on the board of the Freedom of the Press Foundation. (https://pressfreedomfoundation.org/)" Before making documentaries, Poitras worked as a professional chef. She lives in New York City.



Bob Barr is a practicing attorney in Atlanta, Georgia, and a former U.S. Attorney for the Northern District of Georgia and member of the United States House of Representatives, representing Georgia's 7th congressional district as a Republican from 1995 to 2003. He was the Libertarian Party nominee for President of the United States in the 2008 election. From 1971 to 1978, Barr was employed by the Central Intelligence Agency. From 2003 to 2008, he occupied the 21st Century Liberties Chair for Freedom and Privacy at the American Conservative Union (http://conservative.org/), and now is a member of The Constitution Project's (http://www.constitutionproject.org/) Initiative on Liberty and Security. From 2003 to 2005 Bob was a member of a project at Harvard University's Kennedy

School of Government addressing matters of privacy and security. Barr serves as a board member for Privacy International (https://www.privacyinternational.org/), a privacy watchdog group headquartered in London. Recognizing Bob Barr's leadership in privacy matters, former New York Times columnist William Safire called him "Mr. Privacy." Bob teaches constitutional law at Atlanta's John Marshall Law School and writes regularly for The Daily Caller (http://dailycaller.com/buzz/bob-barr/).



Jonathan Askin joined Brooklyn Law School in 2008 with more than a decade of experience in the communications industry in both the public and private sectors. He provided legal and policy counsel and strategic advice for companies that build and develop networks and Internet applications. A sought-after expert in the field of Internet law, he played a key role in the tech task force of President Barack Obama's election campaign. He has also served as president and general counsel for the Association for Local Telecommunications Services and was a senior attorney at the Federal Communications Commission.

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BIOGRAPHY: BRIAN SNOW

Security bibliography - Biographies

Full Name: Brian D. SNOW

Former job title: Technical Director of the Information Assurance Directorate of the United States National

Security Agency (NSA).

Current activity: - Security and Ethics Consultant.

- Member , US National Academy of Sciences Committee on Future Research Goals and

Directions for Foundational Science in Cybersecurity

Personal webpage: LinkedIn

Personal email: briansnow at comcast.net

Personal phone: +1-301-854-3255

Statement: Brian Snow, "Statement on Synaptic Labs." (2011)

Streaming Video: "Our Cyber Security Status is Grim (and the way ahead will be hard)", free streaming video,

23 minutes long, November 2011.

Streaming Video: See more free videos by Brian Snow below.

Best known for:

Awards: Brian Snow is now a "Distinguished Member of the Cryptomathematics Institute (CMI)" at the

NSA (2011)

Biography: Mathematician/computer scientist, Brian taught mathematics and helped lay the groundwork for a computer science department at Ohio

University in the late 1960's. He joined the National Security Agency in 1971 where he became a cryptologic designer and security systems

architect.

Brian spent his first 20 years at NSA doing and directing research that developed cryptographic components and secure systems. Many cryptographic systems serving the U.S. government and military use his algorithms; they provide capabilities not previously available and span a range from nuclear command and control to tactical radios for the battlefield. Computer Security, Network Security and strong Assurance were major aspects for these systems. He created and managed NSA's Secure Systems Design division in the 1980s. He has many patents, awards, and honors attesting to his creativity.

His later years at NSA were the model for what it means to be a senior Technical Director at NSA (similar to a Chief Scientist or Senior Technical Fellow in industry); he served in that capacity in three major mission components –

- The Research Directorate (1994-1995),
- The Information Assurance Directorate (1996-2002), and
- The Directorate for Education and Training -- NSA's Corporate University (2003-2006)

He was the first Technical Director appointed at the "Key Component" level at NSA, and the only "techie" at NSA to serve in such a role across three different Directorates. Throughout those years, his Credo was:

"Managers are responsible for doing things right;

Technical Directors are responsible for finding the right things to do."

In all of his positions, he insisted that the actions NSA took to provide intelligence for our national and military leaders should not put U.S. persons or their rights at risk. He was a leading voice for always assessing the unintended consequences of both success and failure prior to taking action.

Brian retired in 2006 and is now a Security Consultant and Ethics Advisor.

B.A. mathematics 1965 -- University of Colorado

Quotes: "He who gets to the interface first, wins."

Publication: Brian Snow, "Our Cyber Security Status is Grim (and the way ahead will be hard)", Malta InternationI Cyber Awareness Seminar, free streaming

video, 23 minutes long, November 2011. This video complements and expands the material discussed in the video by PaulDotCom!

Publication:

Brian Snow Interview on PaulDotCom!, 2013



Publication:

Brian Snow, "The Importance of Implementation", World Science Festival 2011, (Courtesy of worldsciencefestival.com)

Publication: Brian Snow, "Cyber-Terrorism: A Question of Intent", World Science Festival 2011, (Courtesy of worldsciencefestival.com)

Publication: Brian Snow, Clinton Brooks, "Privacy and security: An ethics code for U.S. intelligence officers ", August 2009

Publication: Steven J. Greenwald, Steven J. Greenwald, Brian D. Snow, Richard Thieme, Richard Ford, "Towards an Ethical Code for Information Security?",

2008

Publication: Brian Snow, "We Need Assurance!" (see our bibliography page for PDF, MP3) also see: Streaming video of his presentation in 2008.

Publication: Brian Snow, "It's not lovely code, it's an ugly monkey", AusCert 2008, (Courtesy of ZDNet.com.au)

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Publication:	See recommended Personal Software Process bib entry , Capability Maturity Module CMMI Level 5 (overview), ISO 9000 on Wikipedia. Brian Snow, "How encryption can go bad", AusCert 2008, (Courtesy of ZDNet.com.au)					
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John Perry Barlow is a retired Wyoming cattle rancher, a former lyricist for the Grateful Dead, and co-foun Foundation. Since May of 1998, he has been a Fellow at Harvard Law School's Berkman Center for Internet

He is a recognized commentator on information economics, digitized intellectual goods, cyber liberties, virtua cryptography policy, privacy, and the social, cultural, and legal conditions forming in Cyberspace. He also wc matters with the Vanguard Group, DiamondCluster Exchange, and the Global Business Network. He is also Advisory Council of the National Computational Science Alliance.



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Professor Herman's new book, Taking Liberties: the War on Terror and the Erosion of American Democra University Press in October 2011.



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Appelbaum is perhaps most widely known for his involvement with Wikileaks and as a core member of the To co-founder of the San Francisco hackerspace Noisebridge.



Eleanor Saitta is Principal Security Engineer at the Open Internet Tools Project (OpenITP), directing the Open Internet Tools Project (Open ITP), directing the Open Internet Tools Project (Open ITP), directing the Open Internet Tools Project (Open ITP), directing the Open ITP (Open IT for open source software and working on adversary modeling. She is also Technical Director at the Internati (IMMI), a member of the advisory board at Geeks Without Bounds (GWoB), and works on occasion as a S Stach & Liu. She is a founder of the Constitutional Analysis Support Team (CAST), previously co-founded th Area hacker space, and works on the Trike and Briar projects.



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Nathan Freitas leads the Guardian Project, an open-source research and development effort to create secure r human rights defenders and journalists. The project's work includes bringing existing tools such as Tor, Off-the-R disk encryption to the Android platform, as well as implementing entirely new applications, such as the SecureSi organizations including the Tor Project, WITNESS and the International Bar Association.



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Fluent in Mandarin Chinese, Rebecca worked as a journalist for CNN in Beijing for nine years, serving as CNI Correspondent from 1998-2001 and then moved to Japan where she was CNN's Tokyo Bureau Chief and Co



Window Snyder is Senior Product Manager, Security and Privacy at Apple Inc. and the former Chief Security O position at Mozilla, she was Senior Security Strategist at Microsoft in the Security Engineering and Communication was the security lead and responsible for the signoff on Microsoft Windows XP Service Pack 2 and Windows Se position of Director of Security Architecture for @stake.

She is co-author of Threat Modeling, a standard manual on application security.



Jason Alan Snyder is a technologist, futurist, innovation catalyst and inventor.

Jason is the inventor of JAGTAG his patents for which were acquired in 2011 by Augme Technologies. J barcode solution that does not require the consumer to download an application prior to use and the only successfully deliver optimized multimedia to both standard phones and smart phones. Anywhere a mobil JAGTAG, they can use their phone to request and receive multimedia content (video, audio, pictures, te: phone.

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Meredith L. Patterson is an independent researcher whose areas of expertise range from CS-related topics sur data-mining algorithms, complexity theory, computational linguistics, information security, and privacy-enhancing to synthetic biology, design of transgenic organisms using low-cost, build-it-yourself lab equipment, and human met speculative fiction as a published author of multiple short stories, mostly science fiction.

Meredith presented her work with Dan Kaminsky and Len Sassaman on breaking the Internet's certificate author usable, bogus certificates crafted to exploit ambiguity in X.509 parsing implementations using language-theoretic at the Financial Cryptography 2010 conference.



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