

# Election Integrity, Past, Present and Future

## Participants' Biographies

### Introduction

#### **Charles Stewart III**

Charles Stewart III is the Kenan Sahin Distinguished Professor of Political Science at MIT, where he has taught since 1985. His research and teaching areas include congressional politics, elections, and American political development.

His current research about Congress touches on the historical development of committees, party leadership, and Senate elections. Since 2001, Professor Stewart has been a member of the Caltech/MIT Voting Technology Project, a leading research efforts that applies scientific analysis to questions about election technology, election administration, and election reform. He is currently the MIT director of the project. Professor Stewart is an established leader in the analysis of the performance of election systems and the quantitative assessment of election performance.

Professor Stewart has been recognized at MIT for his undergraduate teaching, being named to the second class of MacVicar Fellows in 1994, awarded the Baker Award for Excellence in Undergraduate Teaching, and the recipient of the Class of 1960 Fellowship. Since 1992, he has served as Housemaster of McCormick Hall, along with his spouse, Kathryn Hess.

Professor Stewart received his B.A. in political science from Emory University, and S.M. and Ph.D. from Stanford University.

### The Past

#### **Peter G. Neumann**

Peter G. Neumann ([Neumann@CSL.sri.com](mailto:Neumann@CSL.sri.com)) has doctorates from Harvard and Darmstadt. After 10 years at Bell Labs in Murray Hill, New Jersey, in the 1960s, during which he was heavily involved in the Multics development jointly with MIT and Honeywell, he has been in SRI's Computer Science Lab since September 1971. He is concerned with computer systems and networks, trustworthiness/dependability, high assurance, security, reliability, survivability, safety, and many risks-related issues such as voting-system integrity, crypto applications and policies, health care, social implications, and human needs -- especially

those including privacy. He moderates the ACM Risks Forum, is responsible for CACM's Inside Risks columns, chairs the ACM Committee on Computers and Public Policy, and chairs the National Committee for Voting Integrity (<http://www.votingintegrity.org>). He created ACM SIGSOFT's Software Engineering Notes in 1976, was its editor for 19 years, and still contributes the RISKS section. He is on the editorial board of IEEE Security and Privacy. He has participated in four studies for the National Academies of Science: Multilevel Data Management Security (1982), Computers at Risk (1991), Cryptography's Role in Securing the Information Society (1996), and Improving Cybersecurity for the 21<sup>st</sup> Century: Rationalizing the Agenda (2007). His 1995 book, Computer-Related Risks, is still timely. He is a Fellow of the ACM, IEEE, and AAAS, and is also an SRI Fellow. He received the National Computer System Security Award in 2002 and the ACM SIGSAC Outstanding Contributions Award in 2005. He is a member of the U.S. Government Accountability Office Executive Council on Information Management and Technology, and the California Office of Privacy Protection advisory council. He co-founded People For Internet Responsibility (PFIR, <http://www.PFIR.org>). He has taught courses at Darmstadt, Stanford, U.C. Berkeley, and the University of Maryland. See his website (<http://www.csl.sri.com/neumann>) for testimonies for the U.S. Senate and House and California state Senate and Legislature, papers, bibliography, further background, etc.

## **Eva Waskell**

Eva Waskell has been closely involved with U.S. election integrity issues nationwide since 1985. Her research regarding three election-related lawsuits from the early 1980s became the primary source material for a July 29, 1985 *New York Times* article by David Burnham about the vulnerabilities of computerized voting systems. She is quoted in that article. From 1989 to 1999 she served as the volunteer director of the Elections Project for the Washington, DC chapter of Computer Professionals for Social Responsibility, and was on the board of advisors of the former San Francisco-based VoteWatch/Election Science Institute in 2004-06. Waskell is a strong supporter of citizen stakeholders having a seat at the table on an equal footing with other participants in election reform. Her focus is also on transparency, accountability, observer access, and timely access to public election data as ways to regain public trust in election results.

## **Kurt Hyde**

### Education:

BS in Physics – University of Hartford

MS in Systems Management – University of Southern California

### Professional Employment:

Retired Lieutenant Colonel, US Air Force Reserve

Current Position – Database Administrator

Former Positions – Systems Analyst, Software Course Developer, Computer Programmer

### How I Became Involved:

As an Adjunct Instructor teaching Systems Analysis at Rivier College in Nashua, New Hampshire, I led my students in a study of the computerized voting equipment and concluded that computerized voting equipment needed a voter-verified paper audit trail.

At that time, I was a Senior Systems Analyst at Digital Equipment Corporation in Merrimack, New Hampshire. Other people directly involved in what we did at Rivier College were New Hampshire Secretary of State William Gardner and Bob Geisenhainer (My manager at DEC).

Since 1986:

I became active in elections. I worked as a vote counter in Weare, New Hampshire. I have been an elections observer in Concord, New Hampshire and Colorado Springs, Colorado. I've served as an Election Judge in Denton County, Texas.

I've been studying all aspects of elections. I've learned that computers are not the only area of concern in elections. I am working on an improvement in election recount procedures which I call TAR (Targeted Audit Recount) in which the losing candidates get to pick the bulk of precincts to be recounted. It includes a process of verification by mail to the voters to ensure they do exist and they voted.

I have written a number of magazine articles dealing with electoral fraud.

I am a collector of antique election equipment.

**Roy G. Saltman**

Roy G. Saltman was employed by the National Institute for Standards and Technology (NIST) from 1969 to 1996, when he retired. While at NIST as a computer scientist, he consulted for other federal agencies and undertook one of the first comprehensive studies of computerized vote-tallying in the US. Funding was from the GAO, the audit arm of Congress. His report was published in 1975. Later, with funding from a private foundation, he published a second report in 1988. The second report called for the abandonment of pre-scored punch cards as ballots. His warning was ignored, resulting in the Florida voting fiasco of 2000. He testified to a Congressional committee in formulating the Help America Vote Act of 2002, and authored *The History and Politics of Voting Technology* in 2006, published by Palgrave Macmillan. He has advanced degrees from MIT, Columbia U. and American U.

**Douglas A. Kellner**

Douglas A. Kellner has served as Co-Chair of the New York State Board of Elections since 2005. Before moving to the New York State Board, Doug Kellner served as a commissioner on the New York City Board of Elections from 1993 to 2005. Commissioner Kellner has been an outspoken advocate for improving the voting process in New York while insisting on transparency, verifiability, accuracy and uniformity in voting procedures. When he was first appointed to the New York City Board, he was the very first election official to call for a voter verifiable paper audit trail for electronic voting machines, a principle now enshrined

not only in New York law, but in the election codes of a majority of the states throughout the nation. While leading the opposition to unverifiable electronic machines, Doug was instrumental in promoting new technology for scanning absentee and provisional ballots. He drafted model procedures to open the process of canvassing ballots to public scrutiny and convinced his fellow commissioners to adopt rules that provided meaningful due process in ballot challenges. Commissioner Kellner serves on the Advisory Boards of the Accurate Voting Foundation and the Verified Voting Foundation.

### **William M. Gardner**

Bill Gardner is New Hampshire's Secretary of State and by state law required to set the date for the presidential primary every four years. First elected in 1976 by the members of the house and senate, he is serving his eighteenth consecutive two-year term. He was elected three times to the N.H. House of Representatives (1972, 1974, and 1976) and is a past president of the National Association of Secretaries of State. He has a B.A. from UNH and an M.P.A. from Harvard.

With the late former governor Hugh Gregg, he co-authored "*Why New Hampshire: The First in the Nation Primary State*" in 2003. Other published books, edited or co-edited, include "*Towns Against Tyranny: Hillsborough County New Hampshire During the American Revolution 1775-1783*" in 1976; "*New Hampshire: The State that made us a Nation*" in 1989 and "*Pillars of Public Service: One Hundred Years of the National Association of Secretaries of State 1904-2004*" in 2004.

## The Present

### **Pam Fessler**

Pam Fessler is a correspondent on NPR's Washington Desk, where she covers poverty and philanthropy. She's produced stories on homelessness, hunger, and the impact of the recession on the nation's less fortunate. She's also reported on non-profit groups, how they're trying to address poverty and other social issues, and how they've been affected by the economic downturn. Previously, she reported primarily on homeland security, including security at U.S. ports, airlines, and borders. She has also reported on the government's response to Hurricane Katrina, the 9/11 Commission investigation, and such issues as Social Security and election reform. Pam was also one of NPR's White House reporters during the Clinton and Bush administrations.

Before becoming a correspondent, Fessler was the acting senior editor on the Washington Desk and oversaw the network's coverage of the impeachment of President Clinton and the 1998 mid-term elections. She was NPR's chief election editor in 1996, and coordinated all network coverage of the presidential, congressional, and state elections.

At NPR, Fessler has also been deputy Washington editor and midwest National Desk editor. Before coming to NPR in 1993, she was a senior writer at Congressional Quarterly magazine. Fessler worked at CQ for 13 years as both a reporter and editor, covering tax, budget, and other news. She also worked as a budget specialist at the U.S. Office of Management and Budget during the Carter Administration, and was a reporter at The Record newspaper in Hackensack, NJ.

Fessler has a Masters of Public Administration from the Maxwell School at Syracuse University and a bachelor's degree from Douglass College in New Jersey.

### **Pamela Smith**

Pamela Smith is President of Verified Voting, a nonpartisan nonprofit dedicated to safeguarding elections in the digital age. We work to assure accurate and reliable elections worthy of public trust. Verified Voting supplies research and expertise, strategic thinking and policy advocacy to effect change through the responsible use of technology in elections at both Federal and state levels. VV's unparalleled scientific and policy expertise on election technologies supports media, government officials, philanthropic and advocacy nonprofits, and the general public. At the State level, Verified Voting's collaborative work has led to broad measurable successes in transitioning to more resilient voting systems.

Recent achievements include leadership of the collaborative nonprofit effort to compel federal enforcement of antitrust law in the area of voting system vendors; the convening of a Federal interagency public conference on barriers to overseas and military voters and the risks of Internet technology in elections; and serving as a key Election Protection Coalition partner for technology issues in the 2010 general election. To achieve trustworthy elections, current focus includes advocacy in states that still conduct all electronic

elections, improved pre and post election testing to assure accurate vote tallies, and broader public understanding and policy changes to halt the grave risks induce by Internet voting.

Pamela Smith works to bring diverse stakeholders together to ensure resilience in our voting ecosystem. One of three audit experts retained by the Board of Elections of Franklin County, Ohio to assist in developing more effective audit protocols, she is currently a key partner in an effort to develop model legislation for making post-election audits more effective and efficient. She has testified before Congress, the US Election Assistance Commission, and state legislatures on election accuracy and reliability issues. She also supervises Verified Voting's extensive web-based information resource on election equipment in use nationwide, and maintains expertise on regulations that govern the certification and use of election equipment. Smith was a co-editor of the Principles & Best Practices in Post-Election Audits. Before joining Verified Voting, she was a small business/marketing consultant, and executive director at a Hispanic literacy organization.

### **Dan Wallach**

Dan Wallach is an associate professor in the Department of Computer Science at Rice University in Houston, Texas and is the associate director of NSF's ACCURATE (A Center for Correct, Usable, Reliable, Auditable and Transparent Elections). His research has considered security issues with web browsers, smartphones, electronic voting, and applied cryptography. He has testified about voting security issues before a variety of government bodies, has served as an expert witness in a number of voting technology lawsuits, and was one of the participants in California's "top-to-bottom" audit of its voting systems.

### **Ian S. Piper**

Ian has over 20 years of experience in the elections industry. Since 2010, he has been serving as the Director of Certification for Dominion Voting Systems. In his previous employment with the Premier Election Solutions organization, he served in various capacities including engineering and support, management of manufacturing, servicing, operations, regulatory compliance, IP escrow and product management. Ian served as the chair of the Usability/Accessibility Task Group working through the IEEE on the P1583 project to create a new evaluation standard for voting equipment and has contributed to the IEEE P1622 effort to create a Common Data Format. Ian has presented at national conferences and panels regarding the voting system certification process and he continues to work with the EAC (Election Assistance Commission), NIST (National Institute of Standards and Technology) and other organizations for the improvement of voting system standards and certification processes.

### **Carolyn Crnich**

Carolyn Crnich, Humboldt County, CA, County Clerk, Recorder and Registrar of Voters  
Clerk & Recorder's Office: 825 Fifth Street, Fifth Floor, Eureka, CA 95501  
Elections Office: 3033 H Street, Room 20, Eureka, CA 95501; ccrnich@co.humboldt.ca.us

### Personal

Lifelong resident and fifth generation native of Humboldt County, CA  
Married to William Crnich for 39 years; One daughter, Abigail Crnich

### Education

College of the Redwoods, Business Administration  
Humboldt State University, Business Administration

### Professional

Belcher Abstract & Title Company 1972 to 1976 Land Title Department  
Humboldt County Assessor's Office 1976 to 1991 Cadastral Drafting Supervisor  
Elected Humboldt County Recorder 1990 -  
Humboldt County Clerk & Recorder (appointed Co. Clerk) 1997 -  
Humboldt County Clerk, Recorder & Registrar of Voters (appointed Registrar of Voters)  
2004 -  
Re-elected (unopposed) 1994, 1998, 2002, 2006, 2010  
California Registered Election Official (REO) by The Election Center, Houston, Texas and  
California Association of Clerks and Election Officials . CA-16 May 2, 2007  
2007 Patriot Award by Redwood Chapter, American Civil Liberties Union, April, 2009 –  
Seattle, Washington

Recognized by the Election Verification Network for work on Humboldt Election  
Transparency Project. EVN is an international organization of academics, statisticians,  
computer scientists and political scientists who oversee the election process in numerous  
local, national and international jurisdictions.

Recognized by the Threshold Foundation and the Grace Foundation for Democracy and  
Election Integrity for work on the Humboldt Election Transparency Project. December, 2010  
– Marin, California

# The Future

## R. Shep Melnick

R. Shep Melnick is the Thomas P. O'Neill, Jr. Professor of American Politics. He teaches a variety of courses on American politics, including Courts and Public Policy, Ideas and Institutions in American Politics, Bureaucracy, Democracy in America, Rights in Conflict, and the American politics graduate field study.

Melnick's research and writing focuses on the intersection of law and politics. His first book, *Regulation and the Courts*, examined judicial influence on the development of environmental policy. His second, *Between the Lines*, investigated the ways in which statutory interpretation has shaped a variety of entitlement programs. His current research project looks at how the Rehnquist Court is reshaping our governing institutions.

Melnick is co-chair of the Harvard Program on Constitutional Government and a past president of the New England Political Science department. Before coming to Boston College in 1977, he had taught at Harvard and at Brandeis, where he served as chair of the Politics department.

## Philip B. Stark

Philip B. Stark is Professor and Vice Chair of Statistics at the University of California, Berkeley. He served on CA Secretary of State Bowen's Post Election Audit Standards Working Group. He developed the notion of "risk-limiting audits." He conducted the first risk-limiting audits and helped draft California AB 2023, requiring a pilot of risk-limiting audits. He served as an expert witness in a contested election in California and was an expert in the litigation over the 2010 New York Senate District 7 contest. Stark has consulted for the U.S. Department of Justice, the Federal Trade Commission, the U.S. Department of Agriculture, the U.S. Census Bureau, the U.S. Department of Housing and Urban Development, the U.S. Department of Veterans Affairs, the California Secretary of State, the California Attorney General, the California Highway Patrol, and the Illinois State Attorney. He has testified to the U.S. House of Representatives Subcommittee on the Census; the State of California Senate Committee on Elections, Reapportionment and Constitutional Amendments; the State of California Assembly Committee on Elections and Redistricting; and the State of California Senate Committee on Natural Resources. Stark received the John Gideon Award for Election Integrity from the Election Verification Network and the University of California at Berkeley Chancellor's Award for Public Service for Research in the Public Interest for his work on election auditing. Stark is currently working with the California and Colorado Secretaries of State to implement risk-limiting audits under grants from the U.S. Election Assistance Commission. Stark serves on the board of advisors of Verified Voting Foundation.

## Luther Weeks

Mr. Weeks' is a retired software engineer and computer scientist. His efforts in Connecticut contributed to the passage of the paper record law in 2005 and the selection of optical-scan over DRE (touch screen) voting equipment in 2006. He is Executive Director of CTVotersCount and the Connecticut Citizen Election Audit Coalition and a Director of TrueVoteCT. Mr. Weeks holds a B.S. in Mathematics from Clarkson University with Distinction; an M.S. Computer Science from Rensselaer Polytechnic Institute; and is a Master Fellow of the Life (insurance) Management Institute. Spanning thirty-five years, Mr. Weeks led the initial implementations of database, personal computer, and artificial intelligence technologies for The Travelers, where he also led the evaluation and acquisition of commercial software. In the 1990's, for nine years, he was a field engineer and product manager for two data communications software start-ups.

### **Ronald L. Rivest**

Professor Rivest is the Viterbi Professor of Computer Science in MIT's Dept. of Electrical Engineering and Computer Science. He is a member of MIT's Computer Science and Artificial Intelligence Laboratory (CSAIL), a member of the lab's Theory of Computation Group and is a leader of its Cryptography and Information Security Group.

Professor Rivest has current research interests in cryptography, computer and network security, voting systems, and algorithms. In the past he has also worked extensively in the area of machine learning.

Professor Rivest is a co-author (with Professors Cormen, Leiserson, and Stein) of the well-known text Introduction to Algorithms, published by MIT Press. Over 500,000 copies of this text have been sold. It has been translated into 12 languages.

Professor Rivest is an inventor of the RSA public-key cryptosystem. He has extensive experience in cryptographic design and cryptanalysis, and has published numerous papers in these areas. He has served as a Director of the International Association for Cryptologic Research, the organizing body for the Eurocrypt and Crypto conferences, and as a Director of the Financial Cryptography Association. He is a founder of RSA Data Security. (RSA was bought by Security Dynamics; the combined company was renamed to RSA Security, and later purchased by EMC), and is also a co-founder of Verisign and of Peppercoin.

Professor Rivest is a member of the CalTech/MIT Voting Technology Project. He has served on the Technical Guidelines Development Committee (TGDC), advisory to the Election Assistance Commission, developing recommendations for voting system certification standards; he was chair of the TGDC's Computer Security and Transparency Subcommittee. He also serves on the Advisory Board of the Verified Voting Foundation. He is a member of a Scantegrity team developing and testing voting systems that are verifiable "end-to-end."

Professor Rivest grew up in Niskayuna, New York, where he attended public schools. He graduated from Niskayuna High School in 1965. Professor Rivest received a B.A. in Mathematics from Yale University in 1969. He received a Ph.D. in Computer Science from

Stanford University in 1974; his research supervisor was Professor Robert Floyd. He also worked closely with Professor Donald Knuth, David Klarner, and Vasek Chvatal. He was a post-doc at INRIA in Rocquencourt, France for the academic year 1973-74.

## **Dana DeBeauvoir**

Dana has always been inspired by public service. Her interest led her to obtain a Masters Degree from the LBJ School of Public Affairs and ultimately to run for public office. Since her election as County Clerk in 1986, Dana has devoted herself to bringing high ethical standards, effective and cost efficient management practices, the benefits of new technology, and high quality customer service to the office of the County Clerk. The Clerk's Office has a wide range of responsibilities including the conduct of elections; the filing and preservation of real property records; and the management of civil, probate, and misdemeanor court documents.

Dana's commitment to excellence in government has received nationwide acclaim. In 2009, Dana was named Public Official of the Year by the National Association of County Recorders, Election Officials and Clerks (NACRC). The National Association of Election Officials (Election Center) also awarded Dana with the 2009 Minute Man Award for developing an effective security practice that is effective, inexpensive, and easy for election officials to adopt. In 2005, she was the national recipient of the Election Center's Best Practices Award for her work in using risk analysis to implement security measures for electronic voting systems. Travis County is also recognized across the country for its groundbreaking early voting program that is centered on customer-friendly polling locations in high-traffic retail locations.

Dana serves as a Texas Representative on the federal Election Commission Assistance Standards Board and on the Board of Directors and as the Election Committee Chair for the National Association of County Recorders, Elections Officials, and Clerks.

Dana is particularly proud of the passion Travis County voters have for democracy and was honored by the opportunity to share their enthusiasm with other parts of the world. Dana has served as an advisor and election observer for Bosnia, the Peoples Republic of Bangladesh, Kosovo, and the historic South Africa election that represented the end of apartheid.