

6-23-2010

**VITA**

**VINTON GRAY CERF**

**Educational History**

Van Nuys High School, Van Nuys, CA  
Graduated: Feb 1961

B.S. Math, Computer Science, Stanford University, Stanford, CA 1965  
M.S. Computer Science, University of California, Los Angeles, CA 1970  
Ph.D. Computer Science, University of California, Los Angeles, CA 1972

**Employment History**

October 2005 – Present

Google Inc.

VP and Chief Internet Evangelist  
Responsible for encouraging extensive development of Internet-based applications throughout the Google enterprise. Serving as a public face for Google and an internal communications channel for product ideas and new technology application.

August 2003 – September 2005

MCI  
22001 Loudoun County Parkway, F2-4115  
Ashburn, VA 20147

Senior Vice President, Technology Strategy  
Responsible for guiding corporate strategy, acquisitions and partnerships with regard to technology

January 2003 – August 2003

MCI  
22001 Loudoun County Parkway, F2-4115  
Ashburn, VA 20147

Senior Vice President for Architecture and Technology  
Responsible for design and development of advanced voice, data and Internet networking systems.

November 1999 – December 2002

WorldCom Corporation  
22001 Loudoun County Parkway, F2-4115  
Ashburn, VA 20147

Senior Vice President for Internet Architecture and Technology

Responsible for design and development of advanced networking and Internet systems

August 2000 – Present

IPN Group  
1435 Woodhurst Blvd  
McLean, VA 22102

President. This is a California corporation set up to commercialize Interplanetary Protocols developed at the Jet Propulsion Laboratory. The work is still too experimental for such application, so the corporation has been essentially dormant.

November 1999 – November 2007

Internet Corporation for Assigned Names and Numbers (ICANN)  
4676 Admiralty Way, Suite 300  
Marina del Rey, CA

Board member since November 1999  
Chairman from November 2000 – November 2007

This was an unpaid position. The organization is a non-profit California corporation responsible for the management and coordination of the Internet's unique identifiers and parameters (Domain Names, Internet Addresses and Protocol parameters).

September 1998 – Nov 1999

MCI WorldCom Corporation  
2100 Reston Parkway, 6<sup>th</sup> Floor  
Reston, VA 20191

Senior Vice President for Internet Architecture and Technology  
Responsible for design and development of advanced Internet systems

July 1998 – Present

Jet Propulsion Laboratory  
California Institute of Technology  
4800 Oak Grove Drive  
Pasadena, California 91109-8099

Distinguished visiting scientist responsible for architecture and design of an Interplanetary Internet

January 1997 – Sept 2000

World Business Review (with Casper Weinberger and Alexander Haig)  
MultiMedia Productions  
(Television Program on High Tech Businesses)

January 1996 – September 1998

MCI Communications Corporation  
2100 Reston Parkway, 6<sup>th</sup> Floor  
Reston, VA 20191

Senior Vice President for Internet Architecture and Engineering.

Responsible for design and engineering of MCI Internet system and services.

February 1994 - December 1995

MCI Telecommunications Corporation  
2100 Reston Parkway, 6<sup>th</sup> Floor  
Reston, VA 20191

Senior Vice President for Data Architecture. Responsible for architectural design of MCI Data and Information Services

January 1992 – June 2001

Internet Society  
11150 Sunset Hills Road  
Suite 100  
Reston, VA 20190-5321  
USA  
TEL: +1 703 326 9880  
FAX: +1 703 326 9881

Chairman, Internet Societal Task Force (1999-2001)  
Chairman of the Board (June 1998 – June 1999)  
Vice President, Chapters (June 1997 – June 1998)  
President January (January 1992 – June 1995)

June 1986 - January 1994

Corporation for National Research Initiatives  
1895 Preston White Drive  
Reston, VA 22091

Vice President. Responsible for managing digital library, electronic messaging and Internet research projects.

October 1982 - May 1986

MCI Digital and Information Services Company  
2000 M Street, NW  
Washington, DC 20036

Vice President of Engineering  
Responsible for the design and implementation of MCI Mail.

September 1976 - September 1982

U.S. Defense Advanced Research Projects Agency (DARPA) , Information Processing Techniques Office(IPTO)  
1400 Wilson Street, 7<sup>th</sup> Floor  
Arlington, VA 22209

Program manager and later, Principal Scientist. Responsible for the packet technology and network security research programs, including the DoD Internet project.

November 1972 - August 1976

Stanford University, Stanford, CA 94305

Assistant Professor of Electrical Engineering and Computer Science.  
Conducted research on packet network interconnection protocols and co-designed the DoD TCP/IP protocol suite with Robert E. Kahn. Taught classes in operating systems, algorithms and data structures, networking.

March 1967 - October 1972

Computer Science Department  
Boelter Hall  
University of California, Los Angeles, Los Angeles, CA 90024

Principal Programmer managing a number of projects including the ARPANET Network Measurement Center, a videographics project including a computer-controlled 16 mm camera. Participated in development of ARPANET host protocol specifications.

June 1965 - March 1967

IBM  
3424 Wilshire Blvd.  
Los Angeles, CA

Systems Engineer supporting the QUIKTRAN time-sharing system.

Computer Communications Consulting; 1966 - 1994

Consultant to the National Library of Medicine, Defense Communications Agency (now Defense Information Systems Agency), MCI Communications Corp., National Security Agency, Defense Advanced Research Projects Agency, MITRE Corp., Systems Development Corp., International Institute of Applied Systems Analysis, Department of Education, Cabledata Corp., Jacobi Systems Corp., Systems Control Corp., GTE Sylvania Corp., ELSAG, Inc., National Science Foundation, Salomon Brothers, United Nations Development Programme, MTEL Corporation, EQUIFAX Corporation, MITRE Corporation, General Accounting Office, ACM, IEEE, National Academy of Science, Institute of Medicine, Department of Development (Ireland)

### **Professional Memberships, Activities and Awards:**

Association for Computer Machinery (ACM) (Member since 1967), (Fellow 1993)  
ACM Council  
ACM SIGCOMM (Member, since 1973), (Chairman 1987 - 1991)  
ACM LA-SIGART (Member 1967 - 1972), (Chairman, 1968 - 1969)  
ACM National Lecturer (1979 - 1980)  
ACM Systems Software Award (for TCP/IP with R. E. Kahn), 1992  
American Association for the Advancement of Science (AAAS), Fellow 1990  
Chairman, Information, Computing and Communications Section, 2010-present  
American Association for the Arts and Sciences, Fellow 1995  
Sigma Xi (Member 1972 - Present)

IEEE (Member 1976, Senior Member 1980, Fellow 1988)  
 IEEE Koji Kobayashi Award (for TCP/IP with R. E. Kahn), 1992  
 IEEE Alexander Graham Bell Award (for Internet, with R. E. Kahn), 1997  
 IFIP - Chairman, IFIP Working Group 6.1 (1972 - 1976)  
 Member IFIP Working Groups 6.1, 6.2, 6.3, 6.4, and 6.5  
 Internet Architecture Board (Member 1985-1993), (Chairman 1989-1991)  
 Internet Society (Pioneer Member, since 1992), (Founding President 1992 - 1995),  
 Board of Trustees (1992 – Sept 2000), (Vice President for Chapters 1997-1998),  
 Chairman (1998-1999), (Founding Chairman, Internet Societal Task Force,  
 March 1999-Sept 2000)  
 IPV6 Forum (Honorary Chairman, July 1999 – present)  
 Federal Newsmaker Award (Federal Computer Week, 1989)  
 Datamation Hall of Fame, 1989  
 Brain Mapping Panel, Institute of Medicine 1990-1991  
 Rubin I. Altizer Award, 1992  
 Collaboratory Panel, National Academy of Science, chair, 1992 - 1993  
 Electronic Frontier Foundation Pioneer Award, 1993  
 UNIFORM Award, 1993  
 Dvorak Technology Award, 1993 (BBSCON)  
 Info World Technology Award, 1993 (on behalf of Internet Society)  
 National Cristina Foundation Award, 1995  
 NATO Science Subcommittee on Networking, Chairman 1994 - 1998  
 Network/Interop Lifetime Achievement Award, 1994  
 PEOPLE Magazine, 25 Most Intriguing People of 1994, December 1994  
 National Academy of Engineering (Fellow, 1995; committee on membership 2001-2004)  
 Softquad/Rubinsky Award, 1995  
 Medal of the Ambassador of France, 1995  
 International Telecommunications Union Silver Medal, 1995  
 Industry Legend Award, Computer and Communications Industries Association, 1996  
 Computerworld/Smithsonian Leadership Award, 1996  
 Franklin Institute, Certificate of Merit, May 1996  
 Nippon Electronics Corporation Computers and Communications Award, 1996  
 ACM SIGCOMM Award, 1996  
 Internet Electronic Commerce Lifetime Achievement Award, 1997  
 National Medal of Technology (w/Robert Kahn), 1997 Awarded by President Bill Clinton  
 Member of the President's Information Technology Advisory Committee 1997- present  
 Marconi Fellowship Award, April 1998  
 Washington Association of Science Award, May 1998  
 Alexander Graham Bell Association for the Deaf Medal, June 1998  
 Computer Reseller News/Computer Museum Hall of Fame, Nov 1998  
 Fellow, International Engineering Consortium, June 1999  
 George R. Stibitz Computer Award, September 1999 (w/Robert Kahn)  
 Werner Wolter Award, Intelevent, September 1999  
 Millennium Evening with President and Mrs. Clinton, (w/Eric Lander) October 1999  
 Living Legend Medal, Library of Congress, April 2000  
 E-map World Communications Lifetime Achievement Award, Monaco, Nov 2000  
 Charles Stark Draper Award (w/Kahn, Kleinrock, Roberts) Feb 2001  
 Andrew Saks Engineering Award, Telecommunications for the Deaf, Inc, July 2001  
 J.D. Edwards Leadership Award for Collaboration, Computerworld, June 2002  
 Prince of Asturias Award, Oviedo, Spain, October 2002  
 World Institute on Disability Annual Award, San Francisco, November 2002  
 UCLA Engineering Alumnus of the Year Award, November 2003  
 National Medal of Science, Tunisia 2003  
 ACM Turing Award, 2004 (with Robert E Kahn), awarded June 2005  
 Presidential Medal of Freedom (w/Robert Kahn), Nov. 9, 2005 by President George Bush  
 National Inventors Hall of Fame, May 2006 (w/Robert Kahn)

St. Cyril & St. Methodius Order of Bulgaria, awarded July 4, 2006 by President Paronov  
The Joseph Priestley Award, Dickinson College, September 2007  
The Japan Prize, April 23, 2008 (w/Robert Kahn)  
Freeman of the City of London, April 2008  
Member of the American Philosophical Society, April 2008  
Foreign Member, Royal Swedish Academy of Engineering Sciences, March 2009  
Eminent Member, Eta Kappa Nu (HKN) honor society of the IEEE, December 2009  
Pender Award, University of Pennsylvania, February 2010 (w/Robert Kahn)  
Lifetime Webby Award, New York City June 2010

**Member of the Technical Advisory Boards of:**

Blastoff! (June 2000 – January 2001)  
Bulgarian President's Council for Information Technologies (2002-2009)  
CoSine Corporation (January 2004 – December 2004)  
COSMOS ID (June 2009 – present)  
Research Libraries Group (1988-1989)  
Federal Networking Council (1990 - 1997)  
General Magic, Inc. (1991 - 1992)  
HP Strategic Technology Advisory Board (August 2002 – July 2005)  
IPVerse (1999 – August 2001)  
Bellcore (1992 - 1994) – acquired by SAIC  
Cyras Systems (January 2000 – January 2001) - acquired  
CSI, Inc. (1992 - 1995) – acquired by IRE  
Intel Carrier Advisory Council (Jan 2002 – October 2005)  
IRE, Inc. (1997 – September 2000)  
Jet Propulsion Laboratory (September 2001 – present)  
Longitude Systems – (August 2000 – November 2001)  
Metricom (May 2000 – July 2001)  
Mount Wilson Council (March 2000 – June 2004)  
National Association of Securities Dealers (June 2000 – June 2004)  
Visitors Committee for Advanced Technology (VCAT) , National Institute of Standards  
and Technology (NIST), Member (2007), Vice Chair (2008-1009),  
Chair (2010 – present)  
Technology Innovation Program Committee, NIST, 2009-present  
Smart Grid Interoperability Panel Governing Board, 2010-present  
Packet Design (June 2000 – December 2004)  
Tribune Entertainment Company (“Earth: Final Conflict” 1997- September 2000)  
B2BS (was SmartAge) (1999 – July 2001) – out of business  
FCC Technology Advisory Board (Jan 1999 – Jan 2001) (Jan 2003-2007)  
Procket Networks (August 1999 – July 2004) - acquired  
Streamcore (January 2000 – June 2003) - acquired  
US Institute of Peace (Jan 2000 - present)  
US President's Information Technology Advisory Council (1997 - 2002)  
VeriSign (March 2008 – present)  
Zero G Capital Fund (March 2000 – December 2003)

**Member of the Editorial Boards of:**

The Internet Protocol Journal (IPJ)  
Journal of Internetworking

### **Member of the Board of Directors:**

2BNatural Inc. (April 2000 – December 2002)  
AfriQ\*Access, Inc (Oct 2000 – December 2002)  
AVANEX (December 1999 – April 2009) (acquired by Oclaro)  
B2B Video Networks (April 2000 – June 2002)  
Broadband for the Deaf and Hard of Hearing (Jan 2009 – present)  
CoSine Corporation (April 2000 – December 31, 2003)  
Digex, Incorporated (October 2002 – October 2003)  
Endowment for Excellence in Education (1999 - Present)  
Folger Shakespeare Library (September 2000 – June 2005)  
FTP Software (1994 - 1998) - acquired  
Gallaudet University (January 1997- June 2005)  
ClearSight Systems (was Hynomics, Inc.) (September 1998 – December 2006)  
Intaba Institute (June 2009 – present)  
Internet Corporation for Assigned Names and Numbers (Sept 1999 – Nov 2007)  
(chairman Nov. 2000 – Nov. 2007)  
Internet Policy Institute (November 1999 – December 2001)  
Internet Society (January 1992 – June 2001)  
Interprophet (1998 – September 2000)  
MarcoPolo Foundation (July 2002 – October 2005)  
MCI Foundation (January 1999 – October 2005)  
National Science & Technology Medals Foundation (2004 – present)  
1<sup>st</sup> Vice President and Treasurer (2006 – present)  
Nuance (December 1999 – December 2004)  
Smart Grid Interoperability Panel Governing Board, Nov 2009 – present  
StopBadWare, December 2009 - present

### **Television Series, Guest Appearances**

Earth: Final Conflict, Episode 21 ("Destruction") as Cy Vincent,  
US President's Chief of Staff (5/3/1998)

World Business Review w/Casper Weinberger, guest expert,  
(1996- September 2000). From June 2000-Jan 2001, w/Alexander Haig.

CSPAN, October 12, 1999 - White House Millennium Evening with President Bill Clinton,  
Hillary Rodham Clinton, Eric Lander

Next Wave w/Leonard Nimoy, guest expert, (December 1999 )

Sam Donaldson's ABC.COM, December 29, 1999

Art and Entertainment Channel's Biographies of the Millennium, commenting on nine  
of the 100 biographies, December 31, 1999

The History Channel, History of the Internet, Jan 31, 2000

### **Speaking Engagements and Professional Activities:**

Keynote Speaker, 1st Latin American Symposium on Computer

Communication, Mexico City, May 1981.

Program Chairman, INFOCOM 82, Las Vegas, Nevada, March 1982  
(sponsored by IEEE Computer and Communications Societies).

Keynote Speaker, INFOCOM 86, Miami, Florida, April 1986.

Keynote Speaker, DECUS Networking Special Interest Group,  
April 1986.

Keynote Speaker, TCP/IP Working Group Meeting, Monterey, Calif.,  
August 1986

Keynote Speaker, SIGCOMM 87, Stowe, Vermont, August 1987.

Keynote Speaker, CRAY USERS GROUP, Minneapolis, April 1988.

Keynote Speaker, IFIP WG 6.1, Atlantic City, June 1988.

Keynote Speaker, IFIP Network Management Workshop, Boston,  
May 1989.

Plenary Speaker, INTEROP 89, San Jose, California, October 1989.

Keynote Speaker, Special Libraries Association, Boston, April 1990.

Keynote Speaker, NISO Annual Meeting, New York, September 1990.

Keynote Speaker, ASIS Annual Meeting, Santa Fe, May, 1992

Keynote Speaker, DFN Semi-Annual Meeting, Berlin, Germany,  
June 1993

Congressional Testimony, House Science Subcommittee,  
(Ch. Valentine), March, 1993

Keynote Speaker, INTEROP, Paris, France, October, 1993

Keynote Speaker, AFCEA, Fairfax, VA, January, 1994

Keynote Speaker, COMNET, Washington, DC, January, 1994

Invited Speaker, Powering Up North America, Toronto, Canada,  
February, 1994

Invited Speaker, Evolution of the Internet, HPCC, Alexandria,  
VA, March, 1994

Congressional Testimony, House Science Subcommittee, (Ch.  
Boucher), March, 1994

Invited Speaker, National Net '94, Washington, DC, April, 1994

Keynote Speaker, ATM II, Technology Transfer Institute,  
April, 1994

Invited Speaker, Internet Association of Japan Symposium,  
Tokyo, Japan, April, 1994

Master of Ceremonies and Keynote Speaker, Information  
Infrastructure, Ballston Partnership, April, 1994

Invited Speaker, ICC/Super Comm, New Orleans, May, 1994

Keynote Speaker, Lawfirm Communications Conference,  
Philadelphia, PA, May, 1994

Keynote Speaker, Rotary Club International, Arlington, VA,  
May, 1994

Keynote Speaker, Thunderbird School Annual Conference,  
Prague, Czech Republic, June, 1994

Invited Speaker, Multiple Panels, Internet Society INET '94/JENC,  
Prague, Czech Republic, June, 1994

Invited Speaker, DISA Information Infrastructure Symposium,  
McLean, VA, June, 1994

Invited Speaker, IEEE National Information Infrastructure  
Symposium, McLean, VA, June, 1994

Invited Speaker, Defense Science Board, Arlington, VA, July, 1994

Invited Speaker, CSC Vanguard Conference, London, England,  
July, 1994

Keynote Speaker, Arizona State University Data Seminar,  
Phoenix, AZ, July, 1994

Invited Speaker, IFIP '94, Hamburg, Germany, August, 1994

Panel Moderator, Congressional Black Caucus Foundation  
Conference, Telecommunications, Washington, DC, September, 1994

Keynote Speaker, Latin American Networks Conference, Santiago,  
Chile, September, 1994 (Via Satellite)

Keynote Speaker, COMNET, San Francisco, CA, September, 1994

Invited Speaker, TCA, San Diego, CA, October, 1994

Invited Speaker, Interchange '94, Washington, DC, October, 1994

Keynote Speaker, Networks and Distributed Systems, Crystal  
City, VA, October 1994

Keynote Speaker, Information Industries Association, New York,  
October, 1994

Keynote Speaker, E-Mail World, Boston, MA, November, 1994

Keynote speaker, Nobel Science Prize Ceremony, Stockholm, Sweden  
December 2002

Approximately 1000 additional speaking engagements over the  
period 1995 to 2006. I have stopped counting after 2006.

## **Academic Honors**

North American Rockwell Four Year Scholarship, 1961.  
Gettysburg College, Gettysburg, PA, Ph.D., honoris causa, 1996  
Capitol College, MD, Ph.D., honoris causa, Commencement speaker, 1997  
University of the Balearic Islands, Ph.D., honoris causa, 1998  
ETH, Zurich, Switzerland, Ph.D., honoris causa, 1998  
University of Lulea, Sweden, Ph.D., honoris causa, 1998  
George Mason University, Ph.D., honoris causa, 2000  
University of Rovira and Virgili, Tarragona, Spain, Ph.D., honoris causa, 2000  
Rensselaer Polytechnic Institute, Troy, NY, Ph. D., honoris causa, May 2001  
University of Twente, Netherlands, Ph.D., honoris causa, November 2001  
Beijing University of Posts and Telecommunications, Prof. honoris causa, Sept 2004  
Brooklyn Polytechnic, Ph.D, honoris causa, February 2005  
University of Pisa, Ph. D., honoris causa, June 2006  
University of Cartagena, Spain, Ph. D., honoris causa, April 2008  
University of Zaragoza, Spain, Ph. D., honoris causa, May 2008  
Universidad Politecnica Madrid, Spain, Ph.D., honoris causa, April 2009  
Bethany College, Lindsborg, Kansas, USA, Ph.D., honoris cause, May 2009

## **Public Service**

Member of the Board of Directors, Fairfax Resource Center for the  
Hearing Impaired (1987 - 1991).

President, Camelot Community Club (1987-1990)

## **Languages: German**

## **Publications:**

1. Measurement of Recursive Programs, Technical Report No. 70-43,  
Engineering Department, University of California, Los Angeles, May 1970  
(Master's Thesis).
2. C. S. Carr, S. Crocker, and V. G. Cerf, "HOST-HOST Communication  
Protocol in the ARPA Network," AFIPS Proceedings of the 1970 SJCC, pp.  
589-597. Reprinted in Computer Networking, edited by Blanc and Cotton,  
IEEE Press, 1976, p. 7.
3. V. G. Cerf, and G. Estrin, "Measurement of Recursive Programs"  
Proceedings of the IFIP Congress, Ljubljana, Yugoslavia, August 1971.
4. R. D. Anderson and E. F. Harslem, J. F. Heafner, V. G. Cerf, J.  
Madden, R. Metcalfe, A. Shoshani, J. White, D. Wood, "The Data  
Reconfiguration Service -- An Experiment in Adaptable Process/Process  
Communication," Proceedings of ACM/IEEE Second Symposium on Problems  
in the Optimization of Data Communication Systems, Palo Alto, October  
20-22, 1971, pp. 1-9, Reprinted in IEEE Transactions on Communications,  
Vol. COM-20, No. 3, June 1972, pp. 557-564.

5. E. C. Russell, V. G. Cerf and J. Postel, "META-5 for BPM and SEX Systems," Document #3, SEX Users Manual, SPADE Group, 3732 Boelter California, Los Angeles, October 1971.
6. V. G. Cerf, E. Fernandez, K. Gostelow, and S. Volansky, "Formal Control-Flow Properties of a Model of Computation," Technical Report No. ENG-7178, Engineering Department, University of California, Los Angeles, December 1971.
7. V. G. Cerf, Multiprocessing, Semaphores and a Graph Model of Computation, Ph.D. Dissertation, Computer Science Department, University of California, Los Angeles, March 1972.
8. V. G. Cerf and W. Naylor, "Storage Considerations in Store-and-Forward Message Switching," 1972 Wescon Technical Papers, session 7, Los Angeles, September 19-22, 1972.
9. K. P. Gostelow, V. G. Cerf, G. Estrin, and S. Volansky, "Proper Termination of Flow-of-Control in Programs Involving Concurrent Processes," Proceedings of the ACM Annual Conference, Boston, August 1972, pp. 742-754.
10. V. G. Cerf and W. Naylor, "Selected ARPA Network Measurement Experiments," COMPCON 72 Digest of Papers, September 12-14, 1972, San Francisco, pp. 201-204.
11. V. G. Cerf, "Parry Encounters the Doctor," DATAMATION, July 1973, pp. 62-64.
12. V. G. Cerf and R. E. Kahn, "A Protocol for Packet Network Intercommunication," IEEE Transactions on Communication, Vol. COM-22, No. 5, May 1974, pp. 637-648. Reprinted in Computer Networking, edited by Blanc and Cotton, IEEE Press, 1976, pp. 95-106.
13. V. G. Cerf, D. D. Cowan, R. C. Mullin, and R. G. Stanton, "Topological Design Considerations in Computer-Communication Networks," Computer Communication Networks, (R. L. Grimsdale and F. F. Kuo, eds.), Academic Book Services, Holland, Netherlands, April 1974.
14. V. G. Cerf and C. Sunshine, "Protocols and Gateways for Interconnection of Packet Switching Networks," Proceedings of the Seventh Hawaii International Conference on System Sciences, Western Periodicals Co., Hawaii, 1974, pp. 105-108.
15. V. G. Cerf, "An Assessment of ARPANET Protocols," Proceedings of the Jerusalem Conference on Information Technology, 1974.
16. V. G. Cerf, D. D. Cowan, R. C. Mullin and R. G. Stanton, "Networks and Generalized Moore Graphs." Proceedings of the Manitoba Conference on Numerical Mathematics, 1974.
17. V. G. Cerf, D. D. Cowan, R. C. Mullin and R. G. Stanton, "A Partial Census of Trivalent Generalized Moore Networks," Combinatorial Mathematics III, Proceedings of the Third Australian Conference held at the University of Queensland, May 1974, Lecture Notes in Mathematics 452, Springer-Verlag, Berlin, 1975, pp. 1-27.

18. V. G. Cerf, D. D. Cowan, R. C. Mullin, and R. G. Stanton, "A Lower Bound on Average Path Length in Regular Graphs," *Networks*, Vol. 4, 1974, pp. 335-342.
19. V. G. Cerf, "ARPANET Protocols," *Computer Networks*, Infotech State-of-the-Art Report No. 24, Infotech Information Ltd., Maidenhead, Berkshire, England, 1974.
20. V. G. Cerf, D. D. Cowan, R. C. Mullin, and R. G. Stanton, "Trivalent Generalized Moore Networks on Sixteen Nodes," *UTILITAS MATHEMATICA*, Vol. 6 (1974) pp. 259-283.
21. C. E. Agnew, P. Baran, D. C. Caulkins, V. G. Cerf, and R. C. Crane, "New Applications for ARPANET-Developed Information Processing Technology, Vol. I., On the Automation of the Procurement Process: Present Status, Feasibility for Improvements, Proposed Next Steps, and Payoffs," *Cabledata Associates, Inc., Palo Alto, California*, February 3, 1975, 112, p. R-170. NTIS AD/A-006 900/5WC.
22. V. G. Cerf, A. McKenzie, R. Scantlebury, and H. Zimmermann, "Proposal for an International End to End Protocol," *ACM SIGCOMM Computer Communication Review*, Vol. 6, No. 1, January 1976, pp. 63-89.
23. K. Uncapher and V. G. Cerf, "The ARPANET -- A User Perspective," Sao Paulo, Brazil, October 1975.
24. R. W. Sanders, V. G. Cerf, "Compatibility or Chaos in Communications," *Datamation*, March 1976, pp. 50-55.
25. V. G. Cerf, "Research Topics in Computer Communication," *Computers and Communication, Proceedings of the Federal Communications Commission Planning Conference, November 8-9, 1976*, AFIPS Press, Montvale, New Jersey, 1976.
26. V. G. Cerf and A. Curran, "The Future of Computer Communications." *Computers and Communication, Proceedings of the Federal Communications Commission Planning Conference, November 8-9, 1976*, AFIPS Press, Montvale, New Jersey 1976. (Also reprinted in *DATAMATION*, May 1977, pp. 105-114.)
27. J. M. McQuillan and V. G. Cerf, A Practical View of Computer Communications Protocols, Tutorial Day Presentation, Fifth Data Communications Symposium, Snowbird, Utah, September 27-29, 1977. (IEEE Press, Catalog No. EHO 137-0, 1978.)
28. V. G. Cerf and P. T. Kirstein, "Issues in Packet Network Interconnection," *Proceedings of the IEEE*, Vol. 66, No. 11, November 1978, pp. 1386-1408.
29. Robert R. Fossum and V. G. Cerf, "Communications Challenges for the 80s," *SIGNAL*, Vol. 34, No. 2, October 1979, pp. 17-25. Reprinted in *High Technology Initiatives in C3I*, (S. J. Andriole, ed.), AFCEA International Press, Washington, D.C., 1986.

30. V. G. Cerf, "DARPA Activities in Packet Network Interconnection," Interlinking of Computer Networks, K. G. Beauchamp, ed.), NATO Advanced Studies Institute Series, D. Reidel Publishing, London, 1979.
31. V. G. Cerf, "Packet Communication Technology," Protocols and Techniques for Data Communication Networks, (F. F. Kuo, ed.), Prentice Hall, New York, 1980.
32. V. G. Cerf, "Protocols for Interconnected Packet Networks," Computer Communication Review, Vol. 10, No. 4, October 1980.
33. V. G. Cerf, "Aspirations and Trends in Computer Networking Technology," Keynote speech, First Latin American Symposium on Computer Networks, Mexico City, May 1981.
34. V. G. Cerf, "Internetting and Electronic Message Systems," Electronic Mail and Message Systems: Technical and Policy Issues, (R. E. Kahn, A. Veza and A. Roth, eds.), AFIPS Press, 1981.
35. V. G. Cerf and R. E. Lyons, "Military Requirements for Packet-Switched Networks and Their Implications for Protocol Standardization," EASCON 1982 Proceedings; also, Proceedings of the SHAPE Technology Center Symposium on the Interoperability of Automated Data Systems, November 1982.
36. V. G. Cerf, H. Clausen, F. Deckelman, H. Dodel, R. E. Kahn, J. Laws, P. T. Kirstein and P. Spilling, "Cooperative U.S./European Research on Command and Control System Interoperability," Proceedings of the SHAPE Technology Center Symposium on the Interoperability of Automated Data Systems, November 1982.
37. V. G. Cerf and E. Cain, "The DoD Internet Architecture Model," Proceedings of the SHAPE Technology Center Symposium on the Interoperability of Automated Data Systems, November 1982. Also appeared in Computer Networks, Vol. 7, No. 5, October 1983, pp. 307-318, doi: 10.1016/0376-5075(83)90042-9, Elsevier Science, B. V.
38. V. G. Cerf, "Packet Satellite Technology Reference Sources," Proceedings of the DFVLR Symposium on Satellites and Data Communication, Cologne, Federal Republic of Germany, September, 1982.
39. V. G. Cerf, "The MCI Mail Architecture", Networks 84, Online Conferences, London, 1984.
40. V. G. Cerf, "Computer-based Messaging", in Data Communications Networks and Systems (T. C. Bartee, ed.), Howard W. Sams & Co., Division of MacMillan, Inc., Indianapolis, IN, 1986.
41. V. G. Cerf, "On the Role of Paper in an Electronic Messaging Environment," in Proceedings of the IFIP Congress '86, Dublin, Ireland, September 1986.
42. V. G. Cerf, "Information Infrastructure," a column appearing in IEEE Networks Magazine, 1987 - 1990.

43. Constance. M. Pechura, Joseph. B. Martin (eds.), Mapping the Brain and its Functions, Institute of Medicine, National Academy Press, 1991 (V.G. Cerf member of committee)
44. V. G. Cerf, "Networks," *Scientific American*, Vol 265, No 3, September 1991, p. 72.
45. V. G. Cerf, "EXPERT OPINION: Warming trend with turbulence in the lower layers," *IEEE SPECTRUM*, Vol. 30, No. 1, January 1993, p. 42 (part of article on Data Communications)
46. V. G. Cerf (Ed.), *National Collaboratories: Applying Information Technologies for Scientific Research*, National Academy of Sciences, Computer Science Technology Board, 1993.
47. V. G. Cerf, "A National Information Infrastructure," *Connexions*, Vol. 7, No. 6, June 1993; also in *Boardwatch*, May 1993 as "Dr. Cerf Goes to Washington."
48. V.G. Cerf, "Research Pays Off," *SCIENCE*, Vol. 271, p.1343, 8 March 1996
49. V. G. Cerf and John Klensin, "Documenting the Information Age: What do we know?," *History of the Internet Conference*, Feb 1997
50. V. G. Cerf, "When They're Everywhere," Beyond Calculation, Copernicus, Springer Verlag, 1997
51. V. G. Cerf, "Our Digital Future," The NOVA Reader: Science at the Turn of the Millennium, TV Books, 1999
52. Robert E. Kahn and Vinton G. Cerf, "What Is The Internet (And What Makes It Work)", *Internet Policy Institute*, December 1999.
53. V. G. Cerf, "One is Glad to Be of Service," The Invisible Future, McGraw-Hill, 2002, p. 127
54. V.G. Cerf, First Chapter of *Sociedad Del Futuro [Society of the Future]*, *Circulo de Lectores*, 2002, p. 24-85, edited by Jordi Llompарт
55. Michael Pelcovits and Vinton G Cerf, "Economics of the Internet," Emerging Telecommunications Networks. The International Handbook of Telecommunications Economics, Volume II, (Gary Madden, ed.), Edward Elgar, Cheltenham, UK, 2003, p. 27-54
56. Scott Burleigh, Vinton Cerf, Robert Durst, Kevin Fall, Adrian Hooke, Keith Scott, Howard Weiss, "The Interplanetary Internet: A Communications Infrastructure for Mars Exploration" *American Institute of Aeronautics and Astronautics*, Published by Elsevier Science Ltd., 2003
57. V.G. Cerf, "Rosencrantz and Ethernet," *Kontur Magazine*, Vol 1993, No. 2-3, p. 101
58. V. G. Cerf, Preface, *CommLaw Conspectus*, *Journal of Communications, Law and Policy*, Institute for Communications Law Studies and the Columbus School of Law, The Catholic University of America, Volume 9, No. 1, 2001, p. 1
59. National Research Council, High Performance Computing and Communications Steering Committee (Ken Kennedy, chair; Frances E. Allen; Vinton G. Cerf; Geoffrey Fox; William L. Scherlis; Burton Smith; Karen R. Sollins), Computing and Communications in the Extreme, National Academy Press, 1996, 160 pages.

60. V. G. Cerf, Foreword, "The Free Flow of Information is not Free," The Internet Under Surveillance, Reporters without Borders, [www.rsf.org](http://www.rsf.org), May 2003.
61. V. G. Cerf, "What are Key Policy and Social Issues Facing the Internet?", in Engineering Tomorrow, (Janie Fouke, Ed., Trudy E. Bell and Dave Dooling, Writers), IEEE Press, New Jersey, 2000, p. 4-10.
62. V. G. Cerf and Robert E. Kahn, Introduction, Managing IP Networks: Challenges and Opportunities, (Salah Aidarous and Thomas Plevyak, editors), IEEE Press, Wiley Interscience, NY, 2003, p. 1-8.
63. V. G. Cerf, "Foreword: Who Rules the Net?", Who Rules the Net?: Internet Governance and Jurisdiction, edited by Adam Thierer and Clyde Wayne Crews, Jr., CATO Institute, Washington, DC, 2003, p. vii-xii.
64. V.G. Cerf, "Internet and the System of Justice", Washington Law Review, Vol. 79, No. 1, February, 2004, p. 25-30.
65. V. G. Cerf, MUSINGS ON THE INTERNET (Part 1), Educause Review, Vol. 37, No. 5, September/October 2002, pp. 74-84.  
<http://www.educause.edu/ir/library/pdf/erm0256.pdf>
66. V. G. Cerf, MUSINGS ON THE INTERNET (Part 2), Educause Review, Vol 39, No. 3, May/June 2004, pp. 28-37.
67. V. G. Cerf, How the Internet is Changing the Concept of Journalism, Innovation Journalism, Vol. 3, No. 4, May 29, 2006 (Third Conference on Innovation Journalism Keynote)
68. R.E. Laporte, G.S. Omenn, I. Serageldin, V.G. Cerf, F. Linkov, A Scientific Supercourse, Science 28 April 2006, Vol. 312, No. 5773 .p 526 (DOI: 10.1126/Science.312.5773.526c)
69. V. G. Cerf, The Disruptive Power of Networks,  
[http://members.forbes.com/global/2007/0507/076\\_print.html](http://members.forbes.com/global/2007/0507/076_print.html), May 5, 2007.
70. V. G. Cerf, "Information Sharing in the 21<sup>st</sup> Century," Career Development in Bioengineering and Biotechnology, G. Madhavan, B. Oakley, L. Kun, eds., Springer Science and Business Media, 2008, chapter 56, pp. 208-209.
71. V.G.Cerf, "An Internet for Everyone and Everything," ICT Shaping the World: A Scientific View, ETSI World Class Standards, Wiley, 2009, Part I, Chapter 2, P. 17-23.
72. V. G. Cerf. 'The open Internet: what it is, and why it matters'. *Telecommunications Journal of Australia*. 59 (2), July 2009, pp. 18.1 to 18.10. DOI: 10.2104/tja09018.
73. V.G. Cerf, "The Net's Big Bang," 1989: The Year that Defined Today's World, TIME Books, 2009, pages 74-75 (article is about Tim Berners-Lee and the WWW)
74. V.G. Cerf, "The Day the Internet Age Began," *Nature* **461**, 1202-1203 (29 October 2009) | doi:10.1038/4611202a; Published online 28 October 2009
75. V.G. Cerf, "Whither Cyberspace" in Present at the Future, Edited by Ira Flatow, Harper-Collins, August 2007, p. 267-276.