

Paul V. Mockapetris, PhD

Objective	Recruit and lead teams developing innovative networking technology.
Experience	<p>2009–present University Pierre et Marie Curie / lip6 Paris, FR Visiting Scholar</p> <ul style="list-style-type: none"> • Wings project member • .OneLab Advisory Board <p>2001–present Nominum Redwood City, CA Chairman and Chief Scientist</p> <ul style="list-style-type: none"> • Obtained restart financing for company. • Started DHCP product, ENUM and RFID initiatives. • Lead presenter of company’s worldwide efforts.
	<p>1999–2001 Urban Media Palo Alto, CA Chief Technology Officer (CTO)</p> <ul style="list-style-type: none"> • Technical lead on company fundraising. • Product development of CLEC and Internet products.
	<p>1998–1999 Fiberlane / Siara Mountain View, CA CTO</p> <ul style="list-style-type: none"> • Led technology and recruiting for company expansion into IP space. • Technical lead for Siara fundraising.
	<p>1996-1997 Software.com Santa Barbara, CA CTO</p> <ul style="list-style-type: none"> • Board member prior to joining company. • Closed deal with Cisco for financing and joint work. • Began company’s initiatives in directory & DNS • development of internet infrastructure technology for messaging, • directory and DNS
	<p>1995-1996 @Home Palo Alto, CA Director of Engineering</p> <ul style="list-style-type: none"> • Director of Engineering at @Home, a company with the mission of bringing high-performance internet to millions via cable TV. Second employee, recruited and led team that deployed first large scale Internet over cable service to 10 cities for multiple MSOs.
	<p>1990-1993 DARPA Arlington, VA Program Manager (on loan from ISI)</p> <ul style="list-style-type: none"> • Responsible for a \$30M research budget. Started multiple programs in optical networking, darkfiber nets, and internet research.

	1978-1995	USC/ISI	Marina del Rey, CA
	Director, High Performance Computing and Communications <ul style="list-style-type: none"> • Managed DARPA funded research group of 30, doubled its size. • Invented the Domain Name System. • Various positions at USC's Information Sciences Institute, starting as a graduate student and ending as Director of the High Performance Computing and Communications Division. • As an individual contributor at ISI, he is best known as the creator of the Domain Name System (DNS), and its first implementor; he worked on the design of mail systems and wrote the first implementation of SMTP; and created the infrastructure contract for the CAIRN (Dartnet II) research network. • Research projects under his supervision at ISI included RSVP, Prospero, NetCheque, ATOMIC, and the Routing Arbiter. His division also ran Los Nettos, a regional network and supported internet infrastructure through IANA and other projects. 		
	1973-1982	<ul style="list-style-type: none"> • Research Assistant and Grad student at UC Irvine, worked on Local Network Interface (LNI), Distributed Computer System (DCS), and its operating system DCOS. Ring ideas later commercialized by Proteon and IBM. 	
	1971-1972	<ul style="list-style-type: none"> • Programmer, Softech, Waltham Mass, numerical control and accounting systems. 	
	1971-1972	<ul style="list-style-type: none"> • Charles Stark Draper Labs, programmed various cross assembler, simulation, and tools in support of display systems and satellite control systems. 	
	1967-1971	<ul style="list-style-type: none"> • IBM, Cambridge Scientific Center, worked on measurement studies for the CP/CMS system, now called VM/370. 	
	1967-1971	<ul style="list-style-type: none"> • System programmer, MIT Architecture Machine Group, created the MAGIC distributed operating system. 	
	1968-1970	<ul style="list-style-type: none"> • Summer intern and later consultant, Central Intelligence Agency, various networking and operating system projects. 	
Education	1982	University of California, Irvine	Irvine, CA
	<ul style="list-style-type: none"> • PhD Information and Computer Science 		
	1971	Massachusetts Institute of Technology (MIT)	Cambridge, MA
	<ul style="list-style-type: none"> • BS Physics, BS Electrical Engineering 		

<p>Awards</p>	<p>Member, US National Academy of Engineering, 2006</p> <p>ACM Sigcomm Test of Time paper award, 2006</p> <p>ACM Sigcomm award, 2005</p> <p>ACM Fellow, 2004</p> <p>IEEE Internet award, 2003</p> <p>○ Distinguished Alumnus Award, University of California, 2001</p> <p>One of "The Top 25 Unsung Heroes Of The Net", Inter@ctive Week, 1997</p> <p>Dvorak Award for "Personal Achievement - Network Engineering", 1997</p>
<p>Leadership</p>	<p>OneLab Advisory Board, 2009 - present</p> <p>Chair, Internet Engineering Task Force (IETF), 1994-1996</p> <p>US Federal Networking Council Advisory Council, 1995-1997</p> <p>Defense Messaging System Advisory Council, ?-?</p> <p>Internet Architecture Board (IAB), 1994-1996</p> <p>Former chair of various IETF Working Groups (WG)</p> <p>Chair of Research WG of the Federal Networking Council, 1991-1994</p> <p>Federal Networking Council Executive Committee, 1990-1993</p>
<p>Selected Publications & Presentations</p>	<p>"The History, Present, and Future of Evolution in the DNS", keynote, 2011 Workshop on DNS health and security (DNS EASY-2011)</p> <p>"The Truth About DNS "Crises", Business Communications Review, June 2006</p> <p>"Telephony's Next Act", IEEE Spectrum, April 2006</p> <p>"Directory Services", in "Internet System Handbook", Addison Wesley, 1993</p> <p>RFC1183, "New DNS RR Definitions", C.F. Everhart, L.A. Mamakos, R. Ullmann, P.V. Mockapetris, 1990</p> <p>RFC1101, "DNS encoding of network names and other types", 1989</p> <p>Mockapetris, P., and K. Dunlap, "Development of the Domain Name System", Proceedings ACM SIGCOMM 88, Stanford, August 1988</p> <p>Mockapetris, P., "Simple Mail Transfer Protocol", in William Stallings, ed., Handbook of Computer-Communications Standards, Chapter 5, Volume 3, MacMillan, 1988</p>

	<p>"Introducing domains", Connexions, October 1987.</p> <p>RFC1034, "Domain names - concepts and facilities", 1987</p> <p>RFC1035, "Domain names - implementation and specification", 1987</p> <p>RFC973, "Domain system changes and observations", 1986</p> <p>Mockapetris, P., and J. Postel, "A perspective on name system design", Proceedings IEEE INFOCOM 85, 1985</p> <p>Mockapetris, P., "The Domain Name System", Proceedings of the IFIP WG 6.5 Working Conference on Computer-Based Message Services, Nottingham, May 1985</p> <p>Mockapetris, P., J. Postel, and P. Kirton, "Name server design for distributed systems", Proceedings ICCS, 1984. (Also available as USC/Information Sciences Institute, RS-84-132, June 1984.)</p> <p>→ "Communication Environments for Local Networks", PhD thesis, University of California, Irvine, 1982</p> <p>"On the design of local network interfaces", in Information Processing 1977, Proceedings of the IFIP Congress, 1977</p> <p>→ "Communication Environments for Local Networks", PhD thesis, University of California, Irvine, 1982</p> <p>"Experiences with the Distributed Computer System", with Dave Farber, UC Irvine tech report 116, 1980</p> <p>"Design Considerations and Implementation of the ARPA LNI Name Table", UC Irvine, tech report 92, 1978</p> <p>"On the design of local network interfaces", in Information Processing 1977, Proceedings of the IFIP Congress, 1977</p>
<p>Seminars and Tutorials</p>	<p>1989-1999</p> <p>DNS seminars for Interop, Rockwell, Varian, Sun, Lockheed, Uniform NZ, Australian Unix Users Group (AUUG), International Standards Organization (ISO), Software.com, Boeing, Ohio Supercomputer Center, Intel, others</p> <p>1996-1999</p> <p>IP/ATM seminars for Interop, AUUG, Terena, Univ of New Brunswick, others</p> <p>o At the University of California, Irvine, Mr. Mockapetris has taught graduate level courses in computer networking, computer architecture and systems, as well as undergraduate courses in digital logic design, software engineering, and assembly language.</p> <p>o Mr. Mockapetris has been a visiting instructor at the Technische Hogeschool, Delft, the Netherlands and the L'Ecole d'Architecture de Marseille-Luminy, Marseille, France, while teaching a course in computer aided design.</p> <p>o Mr. Mockapetris assisted the teaching of several courses at MIT and UCI as a teaching assistant.</p>

<p>Consulting</p>	<p>2011- present Zephyr Photonics, Advisory Board</p> <p>2007-2010 ThreatStop, board of directors, Advisory Board</p> <p>2005-2009 LignUp, Advisory Board</p> <p>2005-2009 Staccato Communications Advisory Board</p> <p>2001-present Mongonet, Advisory board</p> <p>2001-2003 LuxN, Advisory board</p> <p>2001-2002 Nettop Box, board of directors</p> <p>2000-2002 Atoga Systems, Technical Advisory Board</p> <p>1999-2001 Pacific Broadband, Technical Advisory Board</p> <p>1999-2000 Fore Systems through Fish & Richardson</p> <p>1998-2002 Invisible Worlds, technical advisory board</p> <p>1998-2004 Sandlot Capital, general partner, private funding placements & fund.</p> <p>1998 United Parcel Service, DNS advice.</p> <p>1997 Thinkquest, judge for Thinkquest 1997 event.</p> <p>1997 Strategic Network Consulting Inc, authoring presentations and speaking for Netswitch 97 Tour.</p> <p>1997-1999 IPivot, Technical Advisory Board.</p> <p>1996-present series advisor and reviewer for Prentice Hall.</p> <p>1995-1996 Software.com, board of directors.</p> <p>1995-1995 MCI, RFP for government network procurement.</p> <p>1995-2003 program committee member for Networld + Interop conferences.</p> <p>1995-1997 Institute for Defense Analysis (IDA), consultant on networking and distributed simulation.</p> <p>11/94-12/95 Montgomery & Associates, research subject to confidentiality agreement.</p> <p>1990-1991 Open Software Foundation (OSF), member of the Distributed Computing Environment selection committee.</p>
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