“An Unexpected Woman: The Inside Story Behind the VLSI Revolution”

Lynn Conway, Professor of Electrical Engineering and Computer Science, Emerita

University of Michigan, Ann Arbor

(1) Ken Shepard, “Covering”: How We Missed the Inside-Story of the VLSI Revolution”, IEEE Solid State Circuits Magazine, VOL. 4, NO. 4, FALL 2012, pp. 40-42.

http://ai.eecs.umich.edu/people/conway/Memoirs/VLSI/Commentaries/Covering\_by\_Ken\_Shepard.pdf

(2) Nicole Casal Moore, “Thank Lynn Conway for your cell phone”, Michigan Engineering News, 4/24/2014, pp. 42-49

http://www.engin.umich.edu/college/about/news/stories/2014/april/thank-lynn-conway-for-your-cell-phone

(3) “Lynn Conway to receive 2015 IEEE/RSE James Clerk Maxwell Medal,” by Catharine June, Michigan Engineering News, 12/15/2014

<http://www.engin.umich.edu/college/about/news/stories/2014/december/lynn-conway-to-receive-award>

**Links/Refs/Images**

Megan Smith: The Untold Story of Women Who Code (Apr. 29, 2015) | Charlie Rose

<https://www.youtube.com/watch?v=fHyRdAyqV5c>

CTO Megan Smith explains how women in tech are erased from history, By Caroline Siede, May 8, 2015

<http://boingboing.net/2015/05/08/cto-megan-smith-explains-how-w.html>

From Silicon Valley To White House, New U.S. Tech Chief Makes Change, By Elise Hu, Nov 4, 2014

<http://www.npr.org/sections/alltechconsidered/2014/11/04/360430620/from-silicon-valley-to-white-house-new-u-s-tech-chief-makes-change>

*“*[*Megan Smith*](http://en.wikipedia.org/wiki/Megan_Smith) *. . . just moved from a top job at Google in Silicon Valley, where she was vice president of Google X,* [*to the White House*](http://www.whitehouse.gov/blog/2014/09/04/president-obama-names-megan-smith-us-cto-alexander-macgillivray-deputy-us-cto)*, where's she's now the country's chief technology officer . . .*

*The topic of* [*women in tech*](http://www.npr.org/tags/221437017/women-in-tech) *is on many minds lately. Every other industry once dominated by men — finance, law, medicine — has come closer to parity. Tech, meanwhile, seems to be going backwards.*

*"I almost call it death by a thousand cuts" Smith says . . . when you look at it in the aggregate, it's really a lot of unconscious bias."*

*Smith, a lesbian who was CEO of Planet Out, managed to get by past people's biases and brought her passion in climbing to lead Google X, the division of Google that rolled out self-driving cars, and becoming U.S. CTO . . .*

*Smith is a gay woman scientist, which could make her a potential outsider on a few levels. Instead, she's as inside as a tech leader can be, even bounding around the White House with ease . . ."*

Self-fulfilling prophecy:

[Robert K. Merton](http://en.wikipedia.org/wiki/Robert_K._Merton) is credited with coining the expression "self-fulfilling prophecy" and formalizing its structure and consequences. In his 1948 article *Self-Fulfilling Prophecy*, Merton defines it in the following terms:The self-fulfilling prophecy is, in the beginning, [[1]](http://en.wikipedia.org/wiki/Self-fulfilling_prophecy#cite_note-SFP-48-1)

In other words, a positive or negative prophecy, strongly held belief, or [delusion](http://en.wikipedia.org/wiki/Delusion)—declared as truth when it is actually false—may sufficiently influence people so that their reactions ultimately fulfill the once-false prophecy.

Summers’ Effect

<http://web.archive.org/web/20080130023006/http:/www.president.harvard.edu/speeches/2005/nber.html>

EDAC Phil Kaufman Award (1996)

<http://en.wikipedia.org/wiki/Phil_Kaufman_Award>

<http://www.edac.org/about_kaufman_award.jsp>

<http://www.edac.org/htmfiles/KaufmanAward/CarverMead.htm>

<http://www.edac.org/arnPKTranscripts/cam1996.jsp>

[http://www.eecs.berkeley.edu/~newton/presentations/Kaufman/CAMPresent.html](http://www.eecs.berkeley.edu/%7Enewton/presentations/Kaufman/CAMPresent.html)

IEEE John Von Neuman Medal (1996)

<http://www.ieee.org/about/awards/medals/vonneumann.html>

<http://www.ieee.org/documents/von_neumann_rl.pdf>

ACM Allen Newell Award (1997)

<http://awards.acm.org/newell/>

<http://awards.acm.org/citation.cfm?id=6829013&srt=alpha&alpha=M&aw=150&ao=ANEWELL&yr=1997>

MIT Lemelson Award (1999)

<http://web.mit.edu/invent/a-winners.html>

<http://web.mit.edu/invent/a-winners/a-mead.html>

<http://web.mit.edu/invent/n-pressreleases/n-press-99LMP.html>

Dickson Prize in Science, CMU (2002)

<http://en.wikipedia.org/wiki/Dickson_Prize>

Fellow Award, Computer History Museum (2002)

<http://www.computerhistory.org/fellowawards/hall/>

<http://www.computerhistory.org/fellowawards/hall/bios/Carver,Mead/>

National Medal of Technology (2002)

<http://www.uspto.gov/about/nmti/recipients/2002.jsp>

<http://en.wikipedia.org/wiki/National_Medal_of_Technology_and_Innovation>

NAE Founders Award (2003)

<http://www.nae.edu/Activities/Projects20676/Awards/FoundersAwards/Winners9238/page20039227.aspx>

Inventors Hall of Fame (2009)

<http://www.invent.org/hall_of_fame/401.html>

<http://www.uspto.gov/main/homepagenews/2009feb12.htm>

<http://www.invent.org/2009induction/1_3_09_induction_mead.asp>

<http://www.tmcnet.com/usubmit/2009/04/30/4158801.htm>

<http://news.cnet.com/2300-1001_3-10000815.html>

M. Cassidy, “Chip inventors getting their due at Hall of Fame induction”, *San Jose Mercury*, April 30, 2009.