



## Lynn Conway

*Professor of Electrical Engineering and Computer Science, Emerita  
University of Michigan, Ann Arbor.*

Earning her BS (62) and MSEE (63) at [Columbia University's School of Engineering and Applied Science](#), Lynn joined [IBM Research in Yorktown Heights, N.Y.](#), and while working on [IBM's Advanced Computing Systems project](#) made [foundational contributions](#) to computer architecture. Sadly, IBM fired her as she underwent gender transition in 1968.

A gritty survivor, Lynn started her career all over again as a contract programmer in a covert new identity. Advanced rapidly, she soon becoming a computer architect at Memorex, but also began decades living in fear of being 'outed' and losing her career again.

Recruited by [Xerox Palo Alto Research Center \(PARC\)](#) in 1973, Lynn invented scalable design rules for VLSI chip design, became principal author of the seminal Mead-Conway text *Introduction to VLSI Systems*, and in 1978, while serving as a [Visiting Associate Professor of EECS at M.I.T.](#), pioneered the teaching of these new methods.

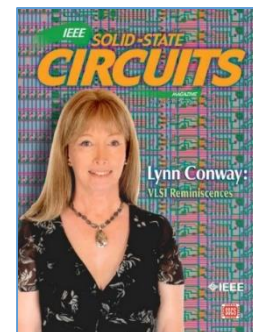
Lynn's teachings [quickly spread](#) to over 100 universities, [launching a revolution](#) in VLSI microchip design during the 1980's. Back at PARC Lynn also invented and in 1979 [massively demonstrated an internet-based e-commerce infrastructure for rapid chip prototyping](#), thereby spawning the [MOSIS System](#) and the "fabless-design + silicon-foundry" industrial paradigm of modern semiconductor-chip design and manufacturing.

As Assistant Director for Strategic Computing at DARPA, Lynn next crafted the meta-architecture and led the planning of the [Strategic Computing Initiative](#), the Department of Defense's major 1980's effort to expand the technology-base for modern intelligent weapons systems. In 1985 she joined the University of Michigan as Professor of EECS and Associate Dean of Engineering, quietly continuing [her distinguished career](#). Now Emerita, she lives with her engineer husband Charles Rogers on their [23 acre homestead](#) in rural Michigan. They've been together over 28 years.

As Lynn neared retirement, she faced 'outing' as stories about her early work at IBM began circulating. With a growing sense of pride in her accomplishments, she overcame her fears, quietly came out via the internet, and gradually created a major [transgender advocacy website](#). Translated by volunteers into [many languages](#), her site has become a beacon of hope and encouragement for gender transitioners world-wide.

Since Lynn "[didn't look like an engineer](#)" back in the day, Silicon Valley's cognoscenti were clueless about her accomplishments in the 1970's. That began to change in 2012, when Lynn published her "[VLSI Reminiscences](#)" in a special issue of *IEEE Solid-State Circuits Magazine*, revealing how - [closeted and hidden behind the scenes](#) - she conceived the ideas and orchestrated the events that swept through and reshaped an entire industry.

Fellow of the IEEE, Member of the Computer History Museum [Hall of Fellows](#) and the National Academy of Engineering, Lynn's also received honorary degrees from [Trinity College](#) and [Illinois Institute of Technology](#). Awarded the 2015 [James Clerk Maxwell Medal](#) by the IEEE and the [Royal Society of Edinburgh](#), her [citation included](#) these words:



*"Her influence on modern electrical engineering is deep and profound, arguably on the scale of [Armstrong](#) and [Steinmetz](#)."*