

TECH
TALK
'14

Back to the Future: The Exploration of the Microworld Has Only Just Begun!



Lynn Conway is Professor Emerita of EECS at the University of Michigan. Member of the National Academy of Engineering and Emerita Member of the Corporation at Draper Lab, she is a pioneering innovator who launched the 1980's "**VLSI Revolution**" in microelectronic design and manufacturing.

Come Hear Lynn Conway Speak!

Must be a U.S.
citizen to attend
and show photo ID

Tuesday, June 24
12-1 p.m.
Draper Lab
Rm. 7137

ABSTRACT

Lynn Conway entered MIT as a young student in 1955, and has led an adventurous life in engineering ever since. In this talk, she reminisces about the waves of paradigmatic innovation she's surfed over the decades, reflecting on how to spot, prepare for, catch and ride such waves. Using lessons from adventure sports and personal experiences, she shares the fun and excitement of remaining partly childlike, always ready to crawl and then walk before running-relays in each new game . . . along the way illuminating the vital roles that exploratory skill development, peer competition/collaboration, team building, social learning and leadership play in such emergent processes.

Looking ahead, Lynn visualizes an incoming tsunami of innovation as we suddenly begin embedding macroscale-product-enhancing interconnected modularized microsystems into almost everything - saying "This is the Big One"! The enabler: The commingling and hybridization of EDA, digital macro/micro/nano "making" and social-media will provide multi-technology "exploration infrastructure" for widespread user-engaged market development and rapid open-source technology evolution. By exploiting collaborative learning, crowdsourcing, crowdfunding, IP brokering, agile methods, rapid-digital-prototyping and more, all participants, from users to makers, will be able to dramatically scale up their connectivity, participation and impact.

Preparing for what's ahead, Lynn is evolving an "Adventurer's Guide to Exploring and Making in the Microworld" and helping connect talented folks who'd like to "go for it." Given Draper Lab's culture and traditions, she sees us as uniquely positioned for trailblazing out into this new frontier.

"If you want to change the future, start living as if you're already there"

Thank Lynn Conway for your cell phone
And come explore the new frontier of the Microworld . . .



"She's been called the 'hidden hand' in the 1980s microchip design revolution that made today's personal computers and smartphones possible." **Nicole Casal Moore**
Michigan Engineering



"PLAYING is ADVENTURING is EXPLORING is INNOVATING is DESIGNING is ENGINEERING is ARCHITECTING is ART." — Lynn Conway

