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 **Diversity in STEM Lunch & Magill Lecture: Lynn Conway**Wednesday, March 23, 2016

Noon-1:30 PM Lunch – Trustee Room, Low

6:00 PM-7:00 PM Presentation & Lecture -- World Room, 3rd Floor (JOU)

7:00 PM-8:00 PM Reception -- World Room (JOU, Pulitzer Hall)

**Purpose**

* Co-hosted by the Office of the Provost and the School of Engineering and Applied Science, this two-part program includes an invite-only lunch and evening Magill lecture.
* The purpose of the lunch is to create dialog and discussion on diversity in STEM at Columbia and give key faculty, administrators and Conway the opportunity to share information on their experiences.
* The evening Magill lecture featuring Conway is open to Engineering undergraduate and graduate students and a student leaders from LGBTQ campus organizations.

**Lunch Program Outline – Trustee Room**

* 11:30 a.m. Room set-- Star Sawyer and Adina Brooks
* noon Lunch attendees arrive; buffet setup
* 12:05 p.m. Provost Coatsworth provides welcome remarks
* 12:15 p.m. Dean Mary Boyce remarks, facilitates discussion
* 1:15 p.m. Discussion wraps
* 1:30 p.m. Lunch concludes
* 2:00 p.m. All guests depart Low Library

**Magill Lecture Program Outline – World Room**

* 5:00 p.m. AV check with Lynn Conway and Star Sawyer
* 5:45 p.m. Dean Boyce arrives at the World Room; quick review of program
* 5:55 p.m. Doors open for students
* 6:05 p.m. Dean Mary Boyce provides welcome; intros Lynn Conway
* 6:10 p.m. Conway presents
* 7:00 p.m. Q & A with audience
* 7:15 p.m. Reception begins
* 8:00 p.m. Event concludes

**Background**

* This is our first Magill lecture held outside of Reunion Weekend.
* We expect approximately and approximately **25** faculty and admin for the lunch conversation and 75 students for the evening lecture and reception.

**bio**



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.

**information**

* World Room is located on the 3rd floor of the Journalism School, Pulitzer Hall.
* There will be an amplified podium, and in-house AV set for the presentation. We can pre-load the presentation onto the laptop 1 day before.
* Star Sawyer, Executive Director of Alumni Relations can be reached at 646-937-0121
* Lunch attendees:

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|  | Lynn Conway  |
|  | Shipra Agrawal |
|  | Don Goldfarb |
|  | George Deodatis  |
|  | Andrew F. Laine |
|  | Peter Schlosser |
|  | Jeffrey W. Kysar |
|  | Eitan Grinspun  |
|  | Barclay Morrison  |
|  | Ken Shepard |
|  | Mary Boyce |
|  | Claude Mellins |
|  | Walter Bockting |
|  | Anke Ehrhardt |
|  | Dennis A. Mitchell |
|  | John Coatsworth |
|  | David Madigan |
|  | Amber Miller  |
|  | Melinda Aquino  |
|  | Peter Awn |
|  | Lamar Lovelace |