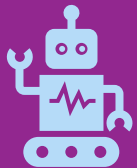


TESLA UNWIRED

The Power of Play at Work

Guest John Cohn, PhD
June 18, 2020

Explore the transformative power of play in the daily work environment to drive solutions and innovation with Dr. John Cohn, IBM Fellow and researcher at the MIT-IBM Watson AI Lab, and TSCW's Executive Director, Mark Alessi. Dr. Cohn shared lifetime insights as a tech innovator who implemented play and misbehavior in the workplace, and how it can lead to breakthroughs and creative solutions.



Surprising (and playful) audio and visual clips spark ideas and imaginative solutions.

Continue your learning journey with links and info from Dr. Cohn

INNOVATE MISBEHAVE :
PLAY

GUEST Dr. John Cohn **HOST** Marc Alessi

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The graphic features a dark blue background with a grid of purple and blue lines. At the top, the words 'INNOVATE' and 'MISBEHAVE' are in white, with a colon to the right. Below them, the word 'PLAY' is in large white letters. Two portraits are shown: on the left, Dr. John Cohn with a white beard and colorful glasses; on the right, Marc Alessi in a suit. A white hamburger menu icon is on the left. At the bottom, there is a white radio tower icon with signal waves, and the event title 'TESLA UNWIRED' and date 'June 18' with the website 'teslasciencecenter.org' in white and purple.

Continue your learning journey with links and info from Dr. Cohn...



Innovation through Play: <https://youtu.be/AnjFgSvj3vU>

Engineering Paradise: <https://youtu.be/Y0DxmthvkKU>

SamStones website: <http://samstones.org>

The veremin: <http://ibm.biiz/veremin>

My daily blog: <http://johncohn.org/base/>

Some things I've built:

<http://johncohn.org/base/geek-stuff-2/nerd-cred/>

“The Colony” - link to Dr. Cohn’s appearance on the Discovery Channel show:

https://www.amazon.com/Colony-Variou/dp/B003V8FYKY/ref=sr_1_3?dchild=1&keywords=the+colony+discover&qid=1592509505&sr=8-3

Q&A

Question

Provided answer or link

Moore's law definition

<http://www.moorelaw.org/>

CMOS definition

<https://techterms.com/definition/cmos>

Do you feel when we made the jump from tubes to transistors it had anything to do with the back engineering of the Roswell crash?

[Description of transition](#)
[First transistor computer](#)
[Description of invention of transistors](#)

The creation of something new is not accomplished by the intellect but by the play instinct acting from inner necessity. The creative mind plays with the objects it loves.

Carl Jung (1875-1961)

Carl Jung (1875-1961)

"The more complex the mind, the greater the need for the simplicity of play."
--Capt. James T. Kirk in TOS episode "Shore Leave"

Another quote shared in chat, incorrectly attributed to Spock

How much faster/ smarter is WATSON compared to the jeopardy days?

[Description of Watson during Jeopardy](#)
[Watson now \(2016\)](#)
[Interesting take on failings of Watson](#)

Watson is a brand: a collection of tools using a variety of things like machine learning and IOT. It is used in all sorts of tech...automotive, healthcare etc. Watson is not getting faster but the techniques are getting faster. Innovations in the software and computing platforms and more importantly innovation in the algorithmic areas are getting better but we still don't have it right. We have a ton of Data like "cat...dog...cat...dog.." and we train on that but it is still pretty primitive compared to the way people learn. There is a huge amount of learning happening with neurosymbolic...it's compares to how we see the brain and neural nets and I think there will be huge advances there as opposed to improving the chip

Q&A

Question

Provided answer or link

Which Tesla work/invention most intrigues the good doctor?

There isn't any individual story because he was an interesting guy, he had a lot of inventions and also did some interesting things including famously building a merry-go-round out of bugs. We have to make it interesting enough, be curious and ask questions...it has to be fun. SO I really liked anything he made with big sparks like induction coils, radio coils...anything like that I was hooked. I think what he really brought to things was a trial and error and a fearless trial and error

Which Tesla pursuit does Dr. Cohn feel was the most futile?

Is it possible to design a computer to read lips for the deaf?

[Lip reading computer info](#)
[Automated lip reading](#)
[Smart gloves translating sign into speech](#)

What happened with the idea of using Watson in medicine?

[Discussion of why Watson did not succeed in medicine](#)

What about AI causing aircraft control systems to override pilots causing the recent accidents?

[Story discussing that](#)

How close are we to AI (aka cognitive reasoning) that can do casual reasoning? Judea Pearl believes AI won't advance until that happens. Do you agree?

[Forbes article on the subject](#)

What online courses do you recommend for someone with a programming background who wants to learn AI?

<https://hackernoon.com/16-best-resources-to-learn-ai-machine-learning-in-2019-f95c4f59018b>

What are your thoughts on NSA and homeland security monitoring all phone calls and texts for key words for terrorist threats?
