



NEW HORIZON
COLLEGE OF ENGINEERING

TEDx



“POWER OF ELECTRONICS AND PEOPLE’S WILL”

-AIDA TODRI

Date: 25 January 2023

Venue: Capsa Lab

Timings : 12:10PM -1:10 PM

MR. D Kodandapani

Faculty Coordinator



Aida Todri-Sanial is a Full Professor in the Electronics Systems group of the Electrical Engineering department at Eindhoven University of Technology (TU/e). Her core expertise is in physical design, design space exploration and optimization methods for the design of energy-efficient circuits and computing architectures. Todri-Sanial

develops physical models and physical design methods to investigate novel computing paradigms such as 3D integration, neuromorphic computing and quantum computing.

In 2016, she was awarded the CNRS bronze medal, in 2018 the Franco-British Young Leader, in 2020 the ACM SIGDA Meritorious award, in 2021 IBM Quantum Open Science prize, in 2022 Distinguished Lecturer of IEEE Nanotechnology Council. She is an editorial board member of the IEEE VLSI journal.



Currently, her research is focused on novel nanomaterials and exploring their physical properties for the design of green electronics and bioelectronics applications.

She has co-authored more than 100 publications on IC design and emerging technologies. Dr. Todri was a recipient of John Bardeen Fellow in Engineering in 2009, CNRS Prime d'Excellence Scientifique in 2012, ACM Distinguished Speakers 2016-2018, CNRS Bronze Medal in 2016 and Franco-British Young leader 2018.

This talk was given at a TEDx event using the TED conference format but independently organized by a local community.

SUMMARY:

1. when you are buying electronics choose which consume least amount of power.
2. use longer and recycle.
3. turn it off at night.
4. use collaboration tools vs emails.

BE ECO FRIENDLY.

FEEDBACK:

Great topic, and indeed how important to bring awareness and point steps that we can implement with regards to our own usage of electronics.

Extremely informative and serious matter . Thank you for making us aware of the problems but mostly offering us practical solutions of how to tackle them so we can make small personal contributions so vital for the wider good.

“A DEMO OF WIRELESS ELECTRICITY”

-ERIC GILER



Eric Giler heads WiTricity, a startup with a product straight out of science fiction: wireless electricity, beamed from a base station to your electrical devices. The technology was developed by an MIT team led by theoretical physicist Marin Soljačić (who won a MacArthur "genius" grant last year). Now, WiTricity is one of several startups developing tech to safely transmit power through the air -- and potentially untether our electronic age.

The technology at the core of WiTricity's approach is called magnetic coupled resonance, which can provoke an energetic response at a distance between two coils, one powered, the other not. If the two coils are correctly tuned to one another, energy flows from the connected one (installed, say, on the ceiling of a room) into the other (inside, say, your laptop). Giler presented a demo of it at TEDGlobal 2009 -- and several companies are already planning to add it to their phones, cameras, TVs and other devices.

Eric heads WiTricity, a startup with a product directly out of science fiction: wireless electricity beamed from a base station to an electrical device. Prior to WiTricity, Eric was the Chairman and CEO of Groove Mobile, a mobile music commerce platform company, and founded Brooktrout Inc., a telecom software and hardware provider. He was granted eight patents, a BS from Carnegie-Mellon and a Master's from Harvard Business School.

In the spirit of ideas worth spreading, TEDx is a program of local, self-organized events that bring people together to share a TED-like experience. At a TEDx event, TEDTalks video and live speakers combine to spark deep discussion and connection in a small group. These local, self-organized events are branded TEDx, where x = independently organized TED event. The TED Conference provides general guidance for the TEDx program, but individual TEDx events are self-organized.

Summary:

Eric Giler wants to untangle our wired lives with cable-free electric power. Here, he covers what this sci-fi tech offers, and demos MIT's breakthrough version, WiTricity -- a near-to-market invention that may soon recharge your cell phone, car, pacemaker.

As the CEO of MIT-inspired WiTricity, Eric Giler has a plan to beam electric power through the air to wirelessly power your laptop or recharge your car. You may never plug in again.



Feedback:

This is just so awesome, just imagine airplanes using air ports as power sources and a network of floating balloons as mediums no need to refuel no need for fuel!!.

May be even space shttles using satellites as sources or mediums allowing for us to build lite space vehicle that use much less energy when leaving the atmosphere (now days about 95% of the space shuttle mass is just booster fuel used for leaving the atmosphere).