

Organized by Fraunhofer Office India

April 15<sup>th</sup> 2021 @ 1500-1600 hrs IST

### Webinar on "Energy Harvesting technology to power wireless sensors in production environment"

By Dr.-Ing. Peter Spies, Group Manager "Integrated Energy Supplies"

Fraunhofer Institute for Integrated Circuits (IIS)

#### Dear Industry Colleagues,

Greetings from Fraunhofer - Hope you are doing well and are safe!

*Innovation is key to creating value for the business, and hence many organizations have been investing in innovation programs. Since employees have the best sense of the current business, employee-led innovation, when conducted well, has the potential to deliver high value to the business. With this note, we are pleased to inform you that Fraunhofer Office India has launched an exclusive webinar series, which focuses on topics of innovation and R&D that are relevant to the Indian context.*

The upcoming webinar in this series is on "Energy Harvesting technology to power wireless sensors in production environment", and will be held on **April 15<sup>th</sup> 2021 @ 1500-1600 hrs IST**. This session will cover:

1. Generic architecture of wireless sensors with energy harvesting
2. Overview of different energy harvesting technologies and performance
3. Global market and application examples
4. Technical focus on thermal and mechanical energy harvesting
5. Detailed presentation of use-cases: Machine monitoring, smart tool, smart screw connection



**The Fraunhofer Institute for Integrated Circuits (IIS)** is one of the world's leading application-oriented research institutions for microelectronic and IT system solutions and services. It is the largest of all Fraunhofer Institutes and its research focuses majorly on cognitive sensor technologies and audio and media technologies. Fraunhofer IIS develops and investigates technologies and systems for using energy from the environment to power small electronic components. Energy Harvesting eliminates the need for cables to power or recharge batteries in mobile devices. Vibrations on equipment, machinery or structures or temperature differences between pipes, radiators or valves and the environment can be used to generate electrical energy. This electrical energy can be used directly to power small electronic systems.

#### Structure of the webinar:

April 15<sup>th</sup> 2021 @ 1500 - 1600 hrs IST

- 1500-1545 hrs: Technical session on Energy Harvesting technologies
- 1545-1600 hrs: Q&A with Dr. Spies

Platform: MS Teams

#### Speaker Profile:

Peter Spies studied Electrical Engineering at the University of Erlangen / Germany and graduated with a Dipl.-Ing. degree in 1997. In 2010, he finished his PhD thesis on the topic of power saving in mobile communication devices.

Since 1998, he is with the Fraunhofer IIS, power efficient systems department. He was working in the field of multi-standard front-ends and system simulations for communication applications. Since 2001 he is group manager of the "Integrated Energy Supplies" group where he is doing research and design on the field of power and battery management, energy transmission and energy harvesting. Focus of his group is circuit and system design as well as software development. Most important applications are wireless sensors, sensors networks or localization systems. In 2018 his group joined the department "Self-powered Radio Systems" and he is heading the business field IoT-Systems.



This is one of our exclusive events and we cordially invite you and your company to attend the session. We also request you to kindly extend the invite internally and let us know additional relevant nominations from your company for this session.

Please confirm your participation by sending an email to [aditya.fuke@fraunhofer.in](mailto:aditya.fuke@fraunhofer.in)

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