EXTREME TEMPERATURES | HIGH RADIATION EXPOSURE | LONG SLEEP PERIODS

ENERGY STARVED ENVIRONMENTS | DATA INTEGRITY AND LIFE

ZeroAMP

www.zeroamp.eu

WORKSHOP: ELECTRONICS FOR EXTREME ENVIRONMENTS

What To Expect At The Event

- Learn how ZeroAMP will make electronic devices that can survive up to 300 °C and 5 Mrad
- Discover how Zeroamp technology can be applied to edge computing and IoT
- Find out how ZeroAMP can enhance FPGA and non volatile memory
- Networking opportunities within ZeroAMP consortium and with other attendees
- Insights on key aspects of our technology and of our roadmap

Where Clifton Hill House
Bristol, UK

When Thursday 30th June 2022

THE PROJECT AT A GLANCE

What Is ZeroAMP?

Zero AMP is a European project that aims at developing processors and memory chips based on nanomechanical switch (NEMS) which can work with low power in harsh environmental conditions.

Why NEMS?

NEMS can work in a much broader temperature range than conventional transistors, sustain high radiation levels, and have zero leakage current in the off state.

Our goal

We aim to produce:

- FPGA demonstrators with >10k logic and memory switches on the same die
- Robust 16kb non-volatile memory

HYBRID EVENT: AGENDA

Hybrid session

"NEMS Technology for beyond CMOS applications"

8.30 Registration

9.00 Welcome

9.15 **Marco Ceccarelli**
European Commission
Overview of The Chips Act

9.45 **Piers Tremlett | Dinesh Pamunuwa**
Microchip Technology | University of Bristol
More than Moore and beyond CMOS: ZeroAMP project

10.30 Coffee Break

11.00 **Stefan Ernst**
X-FAB
Potential of NEMS Technology - A Foundry Perspective

11.30 **Søren Stobbe**
DTU Fotonik
Nanoelectromechanical Silicon Photonics

12.00 **Andrew Moore**
Warwick Manufacturing Group
Driving MEMS Into The Automotive Industry

12.30 Lunch

In Person Session

"From Concept to Product"

13.30 Introduction to Participants

14.00 Target Applications for ZeroAMP

14.15 ZeroAMP'S Technology Roadmap

14.45 Panel Discussion with ECO Members and Other Invited Guests

15.45 Closing Remarks

Times are in BST (+1).

CLICK HERE TO REGISTER FOR THE EVENT

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