



International Reliability Physics Symposium 2023

The International Reliability Physics Symposium (IRPS) is the world's premier forum for leading-edge research addressing developments in the Reliability Physics of devices, materials, circuits, and products used in the electronics industry. IRPS is the conference where **emerging reliability physics challenges and practical solutions** to achieve realistic **end-of life projections and mitigation** are first discussed.

In 2023, the IRPS will be held **March 26th – March 30st at the Hilton, Monterey, California**. Over the course of the conference, IRPS will offer a blended mix of keynote talks, tutorials, year-in-reviews, workshops, vendor exhibits, and technical presentations. **Abstracts are due by October 24rd, 2022. Late breaking news submissions are welcome by January 23rd, 2023.**

The IRPS draws presentations and attendees from industry, academia and governmental agencies worldwide. No other meeting presents as much leading work in so many different areas of reliability of electronic devices, encompassing silicon device, non-silicon device, process technology, nanotechnology, optoelectronics, photovoltaic, MEMS technology, circuits and systems reliability including packaging. IRPS 2023 is **soliciting increased participation** in the following areas: **Embedded / In-product memory / neuromorphic compute, GAA, nanosheet, RibbonFET™, Forksheets, 3D IC advanced packaging.**

IRPS 2023 will be kicked off by keynote presentations from reliability experts at Intel, AMD, and Ampere covering latest reliability trends and mitigation approaches from various industry perspectives.



Ann Kelleher

Executive Vice President and
General Manager of
Technology Development,
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Mark Fuselier

Senior Vice President,
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Rohit Vidwans

Executive Vice President and
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Manufacturing Officer,
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Further opportunities at the symposium include:

- **Tutorial Program.** The IRPS tutorial program is a comprehensive event designed to help both the new engineers and experienced researchers. The program contains both beginner and expert tracks and is broken down into topic areas that allow the attendee to participate in tutorials relevant to their work with minimal conflicts between subject areas.
- **Year-in-Review Session.** These seminars provide a summary of the most significant developments in the reliability community over the past year. This serves as a convenient, single-source of information for attendees to keep current with the recent reliability literature. Industry and academic experts serve as the “tour guides” and save you time by collecting and summarizing this information to bring you up to date in a particular area as efficiently as possible.
- **Poster Reception.** The poster session provides an additional opportunity for authors to present their original research. The setting is informal and allows for easy discussion between authors and other attendees.
- **Workshops.** These workshops enhance the symposium by providing the attendees an opportunity to meet in informal groups to discuss key reliability physics topics with the guidance of experienced moderators. Some of the workshop topics are directly coupled to the technical program to provide a venue for more discussion on the topic.
- **Vendor Exhibits.** Held in parallel with the technical sessions, the equipment demonstrations provide a forum for manufacturers of state-of-the-art laboratory equipment to present their products. Attendees are encouraged to visit the manufacturers’ booths for information and demonstrations.
- **IRPS Paper Awards.** IRPS bestows awards for Best Paper, Best Student Paper, Best Posters, and People’s Choice.
- **IEW Co-Location.** This year the IRPS will be co-located with the International ESD Workshop (IEW). Now in its 16th year, the IEW provides a relaxed, invigorating atmosphere to present new work and engage in discussions about the latest issues confronting the ElectroStatic Discharge (ESD) and Electrostatic OverStress (EOS) communities.

For the call for papers and other information, visit the IRPS 2023 home page at www.irps.org or join the IRPS linked-in group.

The IRPS committee members look forward to seeing you in Monterey, California!

Chris Conner, 2023 IRPS General Chair, Intel

Paula Chen, 2023 IRPS Publicity Chair, AMD