

# 4<sup>th</sup> ANNUAL EOS/ESD MANUFACTURING TRACK CALL FOR PAPERS

Track within the Annual EOS/ESD Symposium

#### Sept 26-Oct 1, 2021 Westin La Paloma Resort & Spa Tucson, AZ, USA

The EOS/ESD Manufacturing Track offers a full program of activities dedicated to EOS/ESD in manufacturing – control materials, technologies, and techniques. This manufacturing conference focuses on a combination of full and short technical papers, poster presentations, invited papers, discussion groups, workshops, hands-on demonstration sessions, short tutorials, and practical demonstrations of equipment by exhibitors.

### Travel Uncertain-Don't Worry-Submit Anyway!

For the second year, EOS/ESD Association, Inc is leading conferences with a pioneering approach to our virtual reality. We have created a hybrid conference that includes both virtual and in person presentations and attendance to suit your needs.

## **Special Focus Topics**

### Automotive Manufacturing

Electronics, especially sensitive and safety-critical components, are becoming more important to the automotive industry. ESD control measures are being required not only in the supply chain but also in automotive OEM manufacturing operations and aftermarket servicing. This is a special focus topic for the 2021 EOS/ESD Manufacturing Track, soliciting inputs on all topics ESD/EOS related to automotive manufacturing.

#### Novel Technologies in Manufacturing and Assembly

A shift to gate all around technologies is appearing in semiconductor manufacturing as the FINFET topology becomes exhausted in the forthcoming 3 nm CMOS node. In addition, novel 2.5D and 3D packaging technologies are ramping to achieve the needed power and performance gain. ESD safe processes are a challenge for these technology and packaging techniques and so new approaches are required. This is a special focus topic for the 2021 EOS/ESD Manufacturing Track, soliciting inputs relating to EOS/EMI/EMC/ESD topics on novel technologies in manufacturing and assembly.

Technical Paper Abstract: Maximum 4 pages Final Manuscript: 6-10 pages Presentation: Max. 20 slides

## **Submission Options**

Technical Poster Abstract: Maximum 2 pages Final Manuscript: 3-5 pages Presentation: Max. 10 slides Technical Poster (Excluded from proceedings) Abstract: Maximum 6 slides Teaser Presentation: Max. 5 slides Full Presentation: Max. 24 slides

Abstract (Paper/Poster) submission due February 8, 2021: Your original 50-word abstract and summary of work to be expanded in a full technical paper or a technical poster must clearly and concisely present specific results and explain the importance of your work in the context of prior work. Authors are required to use the applicable abstract submission template available at <a href="https://www.esda.org/events/43rd-annual-eosesd-symposium-and-exhibits">https://www.esda.org/events/43rd-annual-eosesd-symposium-and-exhibits</a>. Final classification of abstracts as full technical papers or technical posters is at the discretion of the technical program committee. Full manuscripts of accepted technical papers and technical posters will be due before the Symposium. Registration for the Symposium is required for the author presenting the paper.

The technical program committee accepts unpublished papers/posters for peer review with the understanding that the author will not publish the work elsewhere prior to presentation at the Symposium. Publication of accepted papers/posters in any form prior to presentation at the Symposium may result in the paper/poster being withdrawn from the proceedings. Authors must obtain appropriate company and government clearances prior to submitting an abstract.

## **Suggested Submission Areas:**

- ESD Packaging and Handling Procedures
- EOS/EMI/ESD Detection and Measurement Techniques
- ESD Facility Design
- EOS/ESD Mitigation in Test and Manufacturing
- ESD Ionization
- EOS/EMC/ESD Manufacturing Case Studies, Reviews, and Analysis
- EOS/EMC/ESD Process Assessment
- ESD Control in Industry 4.0/Internet of Things (IoT) Technology
- ESD Control Materials and Use of Low Charging Materials
- ESD Issues in 2.5D & 3D Stacking and Through-Silicon-Via (TSV)
- EOS/ESD Control Program Topics (Cost/Benefit Analysis, Training, etc.)
- ESD Control in Explosives & Pyrotechnics, Oil/Petroleum/Biomedical/Chemical Industry
- EOS/ESD Standards Comparison and Analysis
- EOS/ESD Issues and Solutions in Medical Device Manufacturing Industry
- ESD Control in Healthcare
- EOS/ESD Failure Analysis

## **Additional Submission Options:**

### A. Workshop or Discussion Group

Proposals for workshops and discussion groups must be submitted no later than February 8, 2021 with an abstract describing the proposal. Send proposals to <u>esdaadministrative@esda.org</u>. **Workshop** topics address fundamentals, generally accepted techniques, and consider present and future challenges and solutions to problems. **Discussion Group** topics address EOS/ESD novel ideas and consider new developments or common myths dispelled. The discussion should encompass some provocative points of view.

## **B. Hands-on Demonstration**

Proposals for hands-on demonstrations of measurement techniques must be submitted no later than February 8, 2021 with an abstract defining the presentation and measurement. Send proposals to <u>esdaadministrative@esda.org</u>. Authors complete a presentation describing the measurement technique followed by a hands-on station for attendees to perform the measurement as described. Application, limitations, and common pitfalls should be discussed. (Note: ESDA does not provide equipment).

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