

# June 2026 Standards Summary Session

## Additional Information

- For more information on the Standards Business Unit and the standards development process, please visit <https://www.esda.org/standards/standards-working-groups/#references> > Standards Development Presentation.
- A copy of these slides will be posted on our website <https://www.esda.org/standards/standards-working-groups/#references> > Standards Activity Summaries.
- For more information on recent WG activities, please visit <https://www.esda.org/standards/standards-working-groups> > Committees Drop Down Menu.

## WG 1 –Wrist Straps

### Currently published documents

- ANSI/ESD S1.1-2021 Wrist Straps
- ESD TR1.0-01-01 - Survey of Constant Monitors for Wrist Straps

### Summary of discussions/activities/document reviews during the most recent WG meeting.

- It was agreed to add a verification annex to S1.1 for the resistance meter as well as the test fixture
- Two wire wrist straps are in the process of being added to S1.1
- New figures for the two-wire wrist strap and an updated figure for the system test still need to be created
- Hope to have a draft of S1.1 for WG review before the September meetings
- Discussed adding a procedure for testing the resistance between the plates of a two-wire wrist strap. This will be discussed later in conjunction with the TR on continuous monitors
- Decided to wait on restarting the TR on continuous monitors until someone is willing to volunteer to work on it

## WG 2 – Garments

### Currently published documents

- ANSI/ESD STM2.1-2018 Garments
- ESD TR2.0-01-00 - Consideration for Developing ESD Garment Specifications
- ESD TR2.0-02-00 - Static Electricity Hazards of Triboelectrically Charged Garments

### Summary of discussions/activities/document reviews during the most recent WG meeting.

- Discussed buried conductor garments
  - Team agreed to compile industry papers/studies that have been published to date and regroup in September
- Discussed dual conductor garments
  - Team agreed to reach out to garment manufacturers to understand what guidance they have published and regroup in September
- Reviewed STM2.1 Actions/Updates
  - Chair to circulate draft to WG so they can see the final version prior to submitting to TAS
- Discussed general risks associated with garment laundering
  - Team agreed a statement should be included in the “sample preparation” section of STM2.1
  - Chair will provide related comments on TR53 when that is sent to review

## WG 3 - Ionization

### Published Documents

- ANSI/ESD STM3.1-2024 - Ionization
- ANSI/ESD SP3.3-2026 - Periodic Verification of Air Ionizers
- ANSI/ESD SP3.4-2026 - Periodic Verification of Air Ionizers Using a Small Test Fixture
- ANSI/ESD SP3.5-2020 - Air Assist Bar Ionizers, Soft X-Ray (Photon) Ionizers, Room Ionization Alternatives, and Non-Airflow Alpha Ionizers

### Summary of discussions/activities/document reviews during the most recent WG meeting:

- WG3 reviewed the round-robin data collected from 5 labs
  - Data looks very good – although a few issues were found
  - Appears that instability of CPM measurements in the initial few seconds of the test is causing the offset to be reported incorrectly.
  - Data has been re-evaluated to exclude the first 10 seconds and looks much better
- WG3 Chair to send out updated graphs from the reformatted data
- A quick initial review of the draft STM3.1 was started – this will need to be done by a writing team, as there were many suggested changes

## WG 4 – Worksurface

### Currently published documents

- ANSI/ESD STM4.1-2026 - Worksurfaces – Resistance Measurements
- ESD TR4.0-01-02 - Survey of Worksurfaces and Grounding Mechanisms

Summary of discussions/activities/document reviews during the most recent WG meeting.

- Working Group 4 focused on TR (Technical Report) for conveyor systems.
  - The working group recommended adding a high-level summary of potential risks, supported by specific procedures for different conveyor types. Refer to SP17 for more detailed assessment techniques.
  - Working Group agreed to use both schematic type and photos of test step-ups
- Goal of the working group is to have this TR completed by the middle of October 2026

## WG 5 – Device Testing

### Currently published documents

- ANSI/ESD SP5.0-2023 - Reporting ESD Withstand Levels on Datasheets

Summary of discussions/activities/document reviews during the most recent WG meeting.

- 5yr review of WIP5.0
  - The WG addressed all WG comments
  - Next step is to send to the WG for a final review of all edits based on comments
  - Target to have WG complete and submit to TAS before the Sept meeting series
  - Target Sept meeting to address TAS comments
- TR5.0-01
  - No discussion in the June meeting – need to get the writing team back together for a status update

## JWG HBM (Cont. on next slide)

### Currently published documents

- ANSI/ESDA/JEDEC JS001-2024 - Human Body Model (HBM) – Device Level
- ESD JTR001-01-25 – User Guide of ANSI/ESDA/JEDEC JS-001 Human Body Model Testing of Integrated Circuits
- ANSI/ESD SP5.1.3-2022 - Human Body Model (HBM) – A Method for Randomly Selecting Pin Pairs
- ANSI/ESD SP5.1.4-2024 – Random Supply Sampling (two-channel tester)

Summary of discussions/activities/document reviews during the most recent WG meeting.

- In general: preparation of JS-001 for a new revision
- Review of amended JS-001 wording for
  - Non-supply pins which have no obvious associated supply
  - No-connect pins which nevertheless have a function
  - Stress Hardening – wording alignment with JS-002



## JWG HBM Cont.

- Review of changes made to JS-001 since 2024 to prepare for new revision
  - Previously discussed: change to supply group definitions
  - Previously discussed: cloned non-supply pin definitions
  - Alignment with WG5.0 boilerplate wording
  - Numerous minor changes as discussed in this and earlier meetings
  - Tidying up relating to the use of Shall, Should, May and Can
  - Agreement on the next steps towards publication
- Review of changes needed for the next revision of JTR-001
  - To align with changes in JS-001 outlined above
  - Other points which have arisen (including partitioning for parts to be stressed using the pin-pair method)
- Walk-on items
  - Availability of CT-1 and CT-2
  - 5 year review of SP5.1.3 Random pin pair testing

## JWG CDM (Cont. on next slide)

### Currently published documents

- ANSI/ESDA/JEDEC JS-002-2025 – Charged Device Model (CDM) – Device Level
- ESDA/JEDEC JTR002-01-25 – CDM User Guide
- ANSI/ESD SP5.3.3-2018 – Low Impedance Contact CDM (LICCDM)
- ANSI/ESD SP5.3.4-2022 – Capacitively Coupled Transmission Line Pulsing as an Alternative CDM Characterization Method
- ESD TR5.3.1-01-18 - Contact Charged Device Model (CCDM) Versus Field Induced CDM (FICDM) A Case Study

### Summary of discussions/activities/document reviews during the most recent WG meeting.

- TR 5.3.1-02-2X - Charged Device Model (CDM) Testing of Bare Die and 2.5D / 3D Interfaces
  - WG comments review
  - TR sent to TAS for 1st round of review
  - Target to review comments in September

## JWG CDM Cont.

- CC-TLP Round Robin
- LI-CCDM Round Robin
- JS002/JTR002 review
  - Discussion on modification proposed to align JS002 to JS001 and IEC styles
  - Additional items
    - Pogo pin shape Pros/Cons
    - Distance for charging
    - Speed of approach
    - Scope not connected

## WG 5.4 – Transient Latch-up (TLU)

### Currently published documents

- ANSI/ESD STM5.4.1-2022, Transient Latch-up – Device Level
- ESD TR5.4-01-00, Transient Induced Lacth-up (TLU)
- ESD TR5.4-03-11, Transient Latch-up Testing – Component Level - Supply Transient Stimulation
- ESD TR5.4-04-13, Transient Latch-up Testing

### Summary of discussions/activities/document reviews:

- Conducted 5-year review discussion of SP5.4.1-2022, identified that the document requires update and revision rather than simple reaffirmation
- Reviewed current relevance and usage of SP5.4.1; noted limited industry adoption and challenges in practical implementation
- Confirmed SP5.4.1 remains the best-known methodology for TLU characterization, but is not suitable as a standardized qualification method due to variability in transient conditions
- Aligned on maintaining SP5.4.1 as a Standard Practice (SP) and using the revision cycle to clarify scope, role, and positioning within ESDA standards portfolio
- Discussed ESDA expectations and direction for WG5.4; working group is actively reconvening and rebuilding engagement following prior dormancy
- Identified need for broader industry participation and feedback to support document update and ensure relevance to current technologies and applications
- Highlighted gaps in use cases and configurations; additional inputs required to better define applicability and improve technical guidance
- Agreed to gather additional working group and industry feedback through the September meeting and subsequent review cycle

## WG 5.5 – Transmission Line Pulse (TLP)

### Currently published documents

- ANSI/ESD STM5.5.1-2022, the standard test method for (VF-)TLP
- ESDTR5.5-04-23, the user and application guide for (VF-)TLP
- ESDTR5.5-05-20, technical report on transient analysis with TLP
- 3 older technical reports

### Summary of discussions/activities/document reviews:

- Adjudication of TAS comments and updating TR on Statistical TLP Applications started. The literature review section will be included. The goal is to have a WG-approved version ready for TAS review before the September meeting.
- Preparation of draft SP on Transient Analysis started with the goal to have WG review ready for adjudicating comments in the September meeting.
- Presentation from Advantest on powered ESD to replicate damage in testers with a request to develop a standard. The topic is recognized, and feedback will be shared with Advantest. Presentation will also be shared with the Industry Council (SL-DPE).
- Short discussion on 5-year review of STM5.5.1. The plan is to collect input from WG members for consideration in updating or reaffirming the document. Collected inputs to be discussed and decided in the September meeting.

## WG 7 - Flooring

### Currently published documents

- ANSI/ESD STM7.1-2020 – Flooring Systems – Resistive Characterization
- ESD TR7.0-01-23 – Protective Flooring Systems

### Summary of discussions/activities/document reviews during the most recent WG meeting.

- Reviewed Status of ANSI/ESD STM 7.1 Revision – Document now ready for Industry Review
- Reviewed Overall Responsibilities of WG7 Including
  - STM7.1
  - TR7.0
  - Flooring Section of TR20.20
  - Flooring Training Module
- Since all documents are currently in good standing, discussed creating an FAQ of common flooring questions. Suggested scrubbing the ESDA Forum for common questions. This will be discussed at the September meeting.

# WG 11- Packaging

Currently published documents:

- ANSI/ESD S11.4-2022 – Bags
- ANSI/ESD STM11.11-2022 and 11.12-2021 – Surface and Volume Resistance
- ANSI/ESD STM11.13-2021 – Two-Point Probe
- ANSI/ESD S541-2026 – Packaging
- ANSI/ESD STM11.31-2018 – Bags – Discharge Shielding

Summary of discussions/activities/document reviews during the most recent WG meeting.

- Discussed 5-year review of STM's 11.11, 11.12 and 11.13 and who will own the document for the review process and timeline to start/finish review.
- Discussed the direction the concentric ring/parallel bar study wants to go and developed a test plan.
- Obtain data from Wolfgang, Troy, prior to the start of 5-year reviews of 11.11, 11.12, 11.13
- Daniel showed a “mad scientist” approach to verifying the concentric ring probe.
- Conducted a review of WIP 11.31 to adjudicate WG comments and submit to STDCOM for VBM.
- Reviewed ADV 11.2 and discussed what additions can be made (if any), the definition of methods of tribocharging, and discussed types of tribocharging examples.
- Daniel had a short presentation on an incline plane test set up

## WG 12 – Seating

### Currently published documents

- ANSI/ESD STM12.1 “Seating – Resistance Measurements” (2019)

### Summary of discussions/activities/document reviews during the most recent WG meeting.

- Work on ANSI/ESD STM12.1:
  - WG 12 discussed and approved suggestions for editorial and technical changes in boilerplates:
    - Specimen support surface
- WG 12 discussed and approved suggestions for editorial and technical changes in Annex A “Verification Procedure of Measurement Set-up”
  - Editorial changes
  - Resistor values for verification of the meter
  - Cleaning procedure
- Next steps: Update the document, send it to ESDA Operations to approve the document for publication.

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## WG 12 – Seating Cont.

- Identify topics to be addressed in the next revision of ANSI/ESD STM12.1:
  - Clarify the need for resistance measurements of all components of a chair, particularly the footrest, etc.
  - Consider extending the scope of the document to chairs with a resistance to groundable point less than  $1.0 \times 10^4$  ohms
  - Consider adding floor creepers or other “seating objects”
  - Give guidance on the measurement of the backrest
  - Add comments on usage of drag chains
  - Consider adding a “system test” (flooring included, no grounding) with increased resistance limits, for example,  $1.0 \times 10^{11}$  ohms

## WG 13 – Hand Tools

### Currently published documents

- ANSI/ESD S13.1-2019 - Electrical Soldering/Desoldering Hand Tools
- ESD TR13.0-01-99 - EOS Safe Soldering Iron Requirements

Summary of discussions/activities/document reviews during the most recent WG meeting.

- S13.1 5-year review
  - Discussion on ESD Sensitivity and Test Requirements
  - Clarification on Test Procedures and Material Standards
  - Verification and Calibration of Test Equipment
  - Discussion on Sample Size and Qualification
  - Updated and clarified items in draft based on discussion of comments
  - Schedule a Zoom meeting to complete the review of comments.

## WG 14 – System Level

### Currently published documents

- ANSI/ESD SP14.5-2021 Near Field Immunity Scanning - Component/Module/PCB Level (EMC/ESD Scanning)
- ESD TR14.0-01-00 Calculation of Uncertainty Associated With Measurement of Electrostatic Discharge (ESD) Current (Formally TR-07-00)
- ESD TR14.0-02-13 System Level Electrostatic Discharge (ESD) Simulator Verification (Formally SP14.1)

### Summary of discussions/activities/document reviews during the most recent WG meeting.

- SP14.5 EMC Scanning - 5yr review status
  - The decision was made to reaffirm the document as is
  - Document will be finalized and re-released
- Direct Pin Injection Discussions (SL-DPE)
  - The Industry Council is continuing their investigation into the need for a system level direct pin ESD (SL-DPE) document, however they have expressed their desire to have the ESDA develop a test method for SL-DPE.
  - WG will wait for further information from the Industry Council before moving ahead with any document development.

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## WG 14 – System Level Cont.

- Industry Council CBE discussion
  - Relating to lowered design threshold levels and the testing requirements for DDR memory devices, the Council is discussing these new requirements and how this may require a new test method using a CBE test method.
  - WG will wait for further information from the Industry Council before moving ahead with any document development.
- WG14 Status
  - Based on the above, it has been decided that the WG will go dormant till such a time that the Industry Council determines the requirements for a SL-DPE test method AND the Association agrees to take on this development.

## WG 15 – Gloves

### Currently published documents

- ANSI/ESD STM15.1-2019 - Methods for Resistance Measurement of Gloves and Finger Cots
- ESD TR15.0-01-99 - ESD Glove and Finger Cots

### Summary of discussions/activities/document reviews during the most recent WG meeting.

- Team focused on STDCOM comments from the 5yr review of WIP15.1.
  - All critical comments addressed in the meeting
  - Next step to close on all updates and send back for Industry review comments by EO June at the latest
- Target to address Industry Review comments in the September meeting series

## WG 17 – Process Assessment (Cont. on next slide)

### Currently published documents

- ANSI/ESD SP17.1-2026, “Process Assessment Techniques”
- ESD TR17.0-01-15, “For ESD Process Assessment Methodologies in Electronic Production Lines – Best Practices Used in Industry”

Summary of discussions/activities/document reviews during the most recent WG meeting.

- Work on ANSI/ESD SP17.1 “Process Assessment”:
  - Revision 2 of ANSI/ESD SP17.1 was published in May 2026
  - Parking lot items for Revision 3 have been discussed. The following topics will be addressed in Revision 3:
    - Process assessment “Manual Handling”: Add an example of a person with a hand tool with low resistance
    - Annex “Measurement Equipment”: Add (simple) verification procedures for all equipment listed in Annex A
    - Annex “Measurement Equipment”: Improve A.3.4 “Determination of Contact Resistance Under ESD Conditions”
    - Annex “Measurement Equipment: Discuss AC grounding test:
    - NEW: Include risk assessment caused by packaging
    - NEW: Assess risks caused by changing fields (risk is little understood)
    - NEW: Consider additional wording for cable discharge events
    - NEW: Add approach to assessing CDM/CBE risks with other parameters
  - Next steps: Summarize the list of proposed changes and find experts for the contributions

## WG 17 – Process Assessment Cont.

- Work on ANSI/ESD SP17.2 “Process Assessment of Electrical Disturbances”
  - Focus of first part of document: “Grounding”; further parts will follow in next revisions
  - Document will follow the flow of ANSI/ESD SP17.1
  - Writing Team will meet between Meeting Series to define outline and assign sections to volunteers
- Work on ESD TR17.0-03 “ANSI/ESD SP17.1 Handbook”
  - 10+ process steps identified that will be addressed in the document
  - Next steps: Submission of drafts of process assessment of defined processes to WG Chairs (delayed)
- Work on ESD TR17.0-02 “ESD Event Detection”
  - Last missing contribution is being worked on, expected by the end of June 2026
  - Next step: Compile document for WG review by the end of July 2026; discuss WG comments in the September WG meeting

## WG 18 – EDA

### Currently published documents

- ESD TR18.0-01-25 ESDA Technical Report for ESD Electronic Design Automation Checks (update released in January 2026)
- ESD TR18.0-02-20 ESDA Technical Report for Latch-Up Electronic Design Automation

### Summary of discussions/activities/document reviews during the most recent WG meeting.

- Bi-weekly virtual meetings
- Upcoming activities
  - Tutorial on TR18.0-01-25, ongoing decision process if
    - Refreshing of the existing tutorial DD381: “Electronic Design Automation (EDA) Solutions for ESD”
    - Create a different tutorial addressed to EDA people new to ESD
- Cooperations:
  - ESD roadmap 2026 > ongoing updates to the EDA section
  - 3D Integration and Advanced Packaging Task Team



## WG 19 – High Reliability

### Currently published documents

- ESD TR19.0-01-22 Protection of High-Reliability Electrical and Electronic Parts, Assemblies, and Equipment (Excluding Electrically Initiated Explosive Devices)

### Summary of discussions/activities/document reviews during the most recent WG meeting.

- The initial part of the meeting was used to discuss the merits of organizing the requirements in a different manner.
  - Instead of listing requirements, the updated method focuses on the risk that needs to be mitigated, with the current requirements and recommendations added as methods to ensure the risk is mitigated.
  - This makes it a true best practice document where “requirements” are “recommendations” and the real requirement is that the risks are mitigated using either the methods provided or another method that can be proven to mitigate the risk via testing, modeling, or some other methodology.
- The rest of the meeting was used to review draft comments.
  - The focus of comments started with technical comments, which will be finished using virtual meetings over the Summer.
  - Editorial and general comments to be addressed via the writing team in the same time frame.
- A second session was held to continue reviewing draft comments.
  - There was significant discussion that took place on supplier control and how that could affect a high-reliability ESD control program.
  - The other major topic for this session revolved around how to ensure qualification and certification requirements are inclusive of all possible sources and do not stifle competition.

## WG 20 – ESD Control

### Currently published documents

- ANSI/ESD S20.20-2021 - Development of an Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies, and Equipment (Excluding Electrically Initiated Explosive Devices)
- ESD TR20.20-2025 – ESD Handbook

### Summary of discussions/activities/document reviews during the most recent WG meeting.

- Continued to review comments by the working group
- Discussed adding a third method to verify insulator threats
  - Measure the voltage on the ESDS item in the presence of the insulator
- Added a requirement for Gloves and Finger Cots
- Updated standard will be sent for second review

## WG 22 – ESD Parameters

### Currently published documents

- TR22 0-01-14 Relevant ESD Foundry Parameters for Seamless ESD Design and Verification Flow
- TR22 0-02-18 Relevant ESD Parameters for Seamless ESD Design and Verification Flow – Part 2 – ESD Parameters from IP providers

### Summary of discussions/activities/document reviews during the most recent WG meeting.

- We did not have a f2f meeting at Riverside this time. Though the group had few virtual meetings in the last months, with the main focus on the 2<sup>nd</sup> revision of 'TR22-0-02-18'. WG22 collaborates with WG18 regarding using EDA tools to ensure the seamless integration of IPs from the ESD perspective. The goal is to submit the draft of the new revision to TAS this year.
- TR22-0-01-14 status: All TAS comments were answered. The updated document has been reviewed again by TAS, and we will get the new comments in October to adjudicate.
- Efraim gave an invited talk at the 6th India ESD Workshop about foundry ESD deliverables and ESD characterization.
- The WG22 technical reports will be mentioned in a tutorial on ESD characterization in the EOS/ESD2025 symposium. The tutorial will also include a brief review of the reports, their scope, and content.

## WG 26 – System Level ESD Models

### Currently published documents

- ESD TR26.0-01-23 – Behavioral IC Modeling to Perform System Level ESD Simulations – General Description and Trends
- ESD TR26.0-02-24 – Quasistatic Model Definition – Building Model

Summary of discussions/activities/document reviews during the most recent WG meeting.

- Does it make sense to simulate the PCB in 3D to extract the inductances?
- Rise times of 0.6ns/1ns and a maximum pulse duration of up to 100ns are sufficient for the moment. Faster rise times for Cable Discharge Events and Surge modeling can be added later. All of this would add more effort and delay the document.
- A TR can always be amended easily (only needs to go through TAS), and these topics can be added later
- Certain sections of TR26.02 revised can already be started to be written.

## WG 53 – Compliance Verification

### Currently published documents

- ESD TR53-01-22 – Compliance Verification

### Summary of discussions/activities/document reviews during the most recent WG meeting.

- Goal - Harmonization of IEC 61340-5-4 and opportunities for improvements
  - Grounding/Bonding Terms, Definitions, and Symbols
  - Discussion on removing polarity recommendations for resistance measurements
  - Glove methods to move from the Appendix to the document body, based on ANSI/ESD S20.20 guidance.
  - Requirement to address non-compliant ESD control items from the EPA when found
  - Test equipment definitions, agreement to reinstate requirements as appropriate.
  - Discussion on figures used for measurements of insulators, no changes recommended.
  - Seating discussion related to including additional optional measurements (back, arms, etc.) No changes recommended.
  - Worksurface test equipment/procedure, no changes recommended
  - Harmonize on CPM plate terms per guidance of WG3 (Isolated Conductive Plate)
  - Packaging, agreement to add a statement regarding resistance measurement applicability as related to ESD shielding effectiveness.
  - Discussion on preferred method hierarchy for test procedures.
  - Call out to Product Qualifications where there is dispute. If something fails CV, then the product qualification method should be used to validate.

## WG 97 – Footwear/Flooring

### Currently published documents

- ANSI/ESD STM97.1-2025 - Footwear/Flooring System – Resistance Measurement in Combination with a Person
- ANSI/ESD STM97.2-2016 - Footwear/Flooring System – Voltage Measurement in Combination with a Person

### Summary of discussions/activities/document reviews during the most recent WG meeting.

- WG 97 meeting focused on completed WIP97.2 Footwear/Flooring System Voltage Measurement in Combination with a Person.
  - The working group reviewed the STDCOM Comments and adjudicated each of the comments.
  - There was a discussion on reporting the type of footwear being used in conjunction with foot grounders.
- ANSI/ESD STM97.1 Footwear/Flooring System – Resistance Measurement in Combination with a Person was opened and began the initial review of the 10 industry parking lot comments.
  - STM97.1 will be updated with the revised boilerplate language.

## Manufacturing Task Team (Cont. on next slide)

### Currently published documents

*(no document – decisions included in other documents and ESDA Style Manual)*

Summary of discussions/activities/document reviews during the most recent WG meeting.

#### ■ Suggested Boilerplate Changes:

- Metal plate:
  - Added a second specification of the metal plate for test procedures in which the metal plate is only used for verification.
  - Further minor editorial updates included.
- Specimen support surface:
  - “Material” replaced by “specimen” – general guidelines for all occurrences in a document
- Resistance measurement procedure
  - Agreed on editorial changes.
- Polarities in measurement procedures
  - Agreed to use “one terminal” and “the other terminal or “one test lead” and “the other test lead” in all resistance measurement procedures in which polarity is not relevant
- Spelling of parameters
  - Spelling of “resistances point to point” (with or without hyphens), etc., has to be agreed on in TAS and Manufacturing Task Team

## Manufacturing Task Team Cont.

- Suggested Changes in Annex A (“Verification of Measurement Set-up”)
  - Agreed on “For verification of the measurement set-up, including the resistance measurement apparatus, called the meter, the resistance measurement electrodes, called the electrodes, and test leads, the following steps SHOULD be performed: ...”
- Discussion on “Environmental Conditioning”
  - Common understanding that the conditioning period starts when the defined condition is achieved.
  - Minimum, mean, and maximum values of RH and temperature during the conditioning period shall be reported.
  - The RH measurement sampling rate has to be determined; a detailed specification is to be discussed.
  - Discussion ongoing whether specimen support surface has to be conditioned with specimens or could be brought in just before testing starts and is verified.
  - EOS/ESD Association, LLC will perform experiments with a walk-in humidity chamber and a glove box





Our next meeting series is on September 21-26, in Frisco, TX. The meeting schedule is available at [www.esda.org](http://www.esda.org) under Events.