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VOICE Author Training

Presented by Don Blair

Table of Contents

- VOICE Date and Location
- Preface
- Objectives of Today's Meeting
- Understand the Importance of Content and Paper Scoring Categories (Rating)
    - Expertise
    - Relevancy
    - Problem Solving
    - Innovation
    - Quality
- Paper Submission Portal
- Selection Process and Timeline
- Paper Example
- Additional Resources
- Deadlines

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VOICE Overview

VOICE is the annual Advantest Developer Conference where Advantest users and partners present technical papers and share information on new technologies and best practices.

For the location of VOICE this year, please visit the link below

https://voice.advantest.com/

Preface – Acceptance email

has been ACCEPTED as a 30-minute presentation for the Advantest VOICE Developer Conference taking place on this date in latest location with the Workshop Day on that date. Please notify any other authors not included in this email.

*Please note that selection of your presentation for the VOICE event remains conditioned on our final confirmation that the presentation is eligible for export without a license to all non-sanctioned destinations, including China. Final confirmation is currently pending. Once completed, if your presentation does not satisfy this requirement, we may be unable to include it as part of the VOICE event. If we need additional information from you to complete that process, we may contact you over the next few weeks. In the meantime, we encourage you to continue to work on the paper.

Important -- Next Steps:

1) Make sure all co-authors complete the mandatory VOICE Call for Papers Terms Agreement: Forward this email to each abstract co-author and ask them to complete this form ASAP: The link for this is in the acceptance email.
 Failure to do so could result in your paper being rejected.

2) Use the VOICE PowerPoint Template and provide the required number of slides: Complete a first draft of your presentation using the required link provided in the acceptance email.
All deadlines and dates are located here: https://voice.advantest.com/call-for-papers/
The password to download the template is VOICEPPT. Click on the "VOICE PowerPoint template" box in blue. Download will immediately start.
The minimum length for the 30-minute presentation is 20 slides. Presentations with less than 20 slides will not be accepted. Visit the Author Resources section on the VOICE website for writing tips and additional information https://voice.advantest.com/cfp-process/

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Preface – Accept email

3) Use the VOICE submission website to edit and upload: The submission website is located at https://voice.advantest.com/paper-submission/
 Authors will upload their papers and edit the current submitted abstract via the same login used for the initial submission. Go to the edit screen for your abstract; the attachments section is at the bottom right. The website will accept attachments, namely paper drafts and code snippets, if needed. File limit size is 30 MB. The types of files are limited to MS office, text and rtf suffixes. For the draft and final paper, the VOICE power point template must be used.

4) Watch for feedback on your paper draft: You will receive first draft feedback from the VOICE Technical Committee by the deadlines listed here https://voice.advantest.com/call-for-papers/

5) Note the final deadline.

6) Do a thorough IP check: Please have your (and/or your customer's) Your Legal department approve the paper's content. No confidential information can be included as VOICE is a public event.

7) Watch for your final status notification: You will be notified of the final status of your paper – if it will be presented or used as a back-up paper -- by the date listed in the deadlines. The decision will be made based on the final draft of the paper. To view the comments and manage your submission, please visit Advantest VOICE and sign in.

Objectives of Today's Meeting

- Clearly communicate VOICE scoring criteria and strengthen understanding.

- Ensure there is a level playing field for all papers and authors.

- Continue to improve the quality of the papers to position VOICE as the premier developer conference in our industry.

- Allow for open, honest discussion of the process.

- Utilize today's participants to help champion and educate others within your organization.

- Answer outstanding questions.

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Importance of Content and Paper Scoring

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Motivation of VOICE Attendees

- Attendees spend time away from the office as well as company expenses (in some cases, personal expenses) to attend VOICE.

- They attend to obtain exclusive understanding of an application, use-case know-how, or technical demonstration from a credible subject matter "expert."

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Content and Scoring/Rating Criteria

Scoring categories:

- Expertise
- Relevancy
- Problem Solving
- Innovation
- Quality

Expertise (High Degree of)

- Ideally, the author of the paper is an "expert" or "subject matter expert"

  - Brings credible "know-how"

  - "Expert" means someone who has
    - Completed the task successfully
    - Selected the "best way" to complete the task
    - Determined compelling reasons for the selection of the "best way"
    - Demonstrated knowledge of the theoretical aspects

- It is good to seek advice from other "experts" to get the best solution

Examples that do NOT demonstrate high expertise:

- Did not optimally accomplish the task. Undermines credibility of author -- "know-how" and technical expertise as well as negatively impacts Advantest.

- The task was accomplished but the "expert" did not know how he/she accomplished it or why it is the best solution.

Questions?

Next: Relevancy

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Relevancy (High Degree of)

Defined as:

- How often is this encountered by test engineers?

  Often   =   high relevancy

  Rarely   =   low relevancy

  Never   =   no use / no value

- What is the difficulty and importance of the task?

  Difficult   =   high relevancy

  Important   =   high relevancy

  Easy / trivial   =   low relevancy

Questions?

Next: Problem Solving

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Problem Solving

- Problem-solving examples that are useful and valuable to attendees:
  - How to create a stimulus or make a measurement
  - How to improve cost-of-test (test time reduction, make test more efficient, improve multi-site efficiency)
  - How to develop programs faster (time-to-market)
  - How to test a new class of part or new standards (5G, Wi-Gig, IoT, JESD204B/C, etc.)
  - New test methodologies

<u>Examples that do not show a high degree of problem solving:</u>

- Content that can be found in Advantest documentation, on internet, or via other conferences is NOT valuable.

- Sales, marketing or product showcase materials are NOT valuable.

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Questions?

Next: Innovation

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Innovation

Defined as:

- New topics (topics never covered/presented before are preferred)

- Not done before or rarely done

- Important and relevant

- Cannot be a "rehash" of material already available. "Re-hash" is defined on the next page.

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Innovation – Examples of What We Do **NOT** Want

"Re-hash" of information includes:

- Information on a product/system/instrument pulled from specification sheets or marketing materials

- Information that can easily be researched and accessed outside of VOICE (through Google, other industry conferences, from competitors, etc.)

- Content that is heavily focused on promoting Advantest products. For example, a presentation that might be used by a salesperson at a customer account for the purpose of pitching for business.

- Overselling: Content that calls out the solution as being the "best," "greatest," "one-of-a-kind," etc. This is considered marketing/sales jargon. If our solution is the best, it will be demonstrated credibly through the technical content. It does not need to be expressed in these marketing terms.

- Papers recently presented at another conference

Questions?

Next: Quality

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Quality (High Degree of)

Defined as:

- "Well rounded"
  - Includes problem to be solved, solution, summary
  - Optional – theoretical, code examples, DUT board hardware design

- Consistency in the paper
  - All aspects of the paper topic are covered
  - Look and feel of the paper presentation is professional

- Use and follow the VOICE template (paper)
  - High quality pictures (paper)
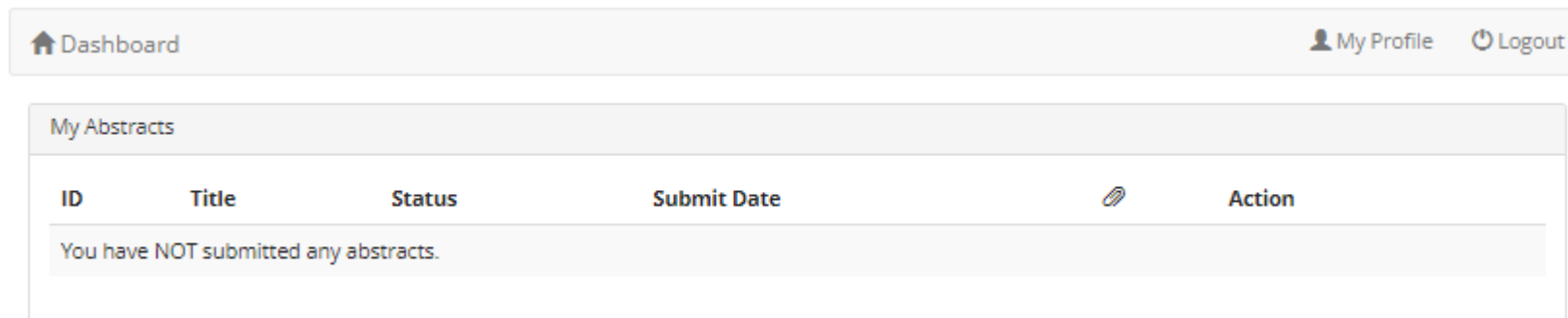 - Formatting, i.e., text is lined up, etc.

Questions on Scoring Criteria?

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Paper submission portal

You will use this URL to submit your paper drafts

https://voice.advantest.com/paper-submission/

Paper Selection Process and Timeline

Please go to this link for the VOICE process flow chart and a description of the process

https://voice.advantest.com/cfp-process/

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Technical Tracks & Topics

Please go to this link for the Technical Tracks for VOICE this year:

https://voice.advantest.com/call-for-papers/

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Paper outline example (not a requirement to follow this)

1) **Title of the paper**
How to Reduce the Overall Cost of Testing Power Management ICs (PMICs) on the V93000

2) **Motivation/problem statement: Why do we care about the topic? What is the goal of this paper?**
Goal:
Minimizing the production test time for any device is a key financial metric to the product release. This paper will show how to test 16 PMIC devices in 5 seconds in a production test flow.

3) **Methods/procedure/approach: What topics will your paper cover?**
How do we achieve this?
a. Test list by IP block
b. Key methodologies that allow us to achieve the desired goal
      i. Smart Calc – theory and code examples
      ii. Testing IPs in parallel for each site – theory and code examples
      iii. Using DC Scale anchor points to make pattern based measurements -- theory
      iv. Using Smart RDI as a user friendly way for pattern based measurements – theory and code examples
c. DUT board considerations
      i. Layout of the multi-site that helps to improve accuracy and reduce wait times
      ii. Other special things done – what and why

Paper outline continued

4) **Results/findings/product: As a result of completing the above procedure, what are the results and what did you learn/invent/create?**
Results:
a. Achieved this test time or possibly a reduction in percentage of test time over previous methods
     i. Breakdown of test time if possible.
b. What other benefits were achieved with the lower test time?
     ii Better utilization of tester HW

5) **Conclusion/implications: What are the larger implications of your findings, especially for the problem/gap identified in step 2?**
Conclusion:
a. Very high level summary of results
     i. Went from test time x to test time y
     ii. What are the biggest contributors to the test time reductions?
b. I discovered these things throughout the development process
     i. System and software learnings
     ii. Device learnings
c. Next time I am going to do these things differently
     i. Reorganize the test flow
     ii. Use this new feature
     iii. Try this different test methodology where I expect these benefits

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The previous information is included in the Author's Resource section at this link: https://voice.advantest.com/cfp-process/

Questions?

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Additional Resources

Don Blair (don.blair@advantest.com) or Ronald Goerke (Ronald.Goerke@advantest.com)

- General questions on process or advice on materials

- Technical resource (feedback on material – if not me, then a subject matter expert)

- Review of PPTs

- Editing and general clean-up of PPTs

- Practice /dry run

VOICE dates

For information about deadlines and dates, please visit here:

https://voice.advantest.com/cfp-process/

Thank You!

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