





September 5, 2023 European Aerosol Conference, Malaga

# My experience with abstract submission and selection

### Christof Asbach

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<sup>2</sup> Gesellschaft für Aerosolforschung, Germany

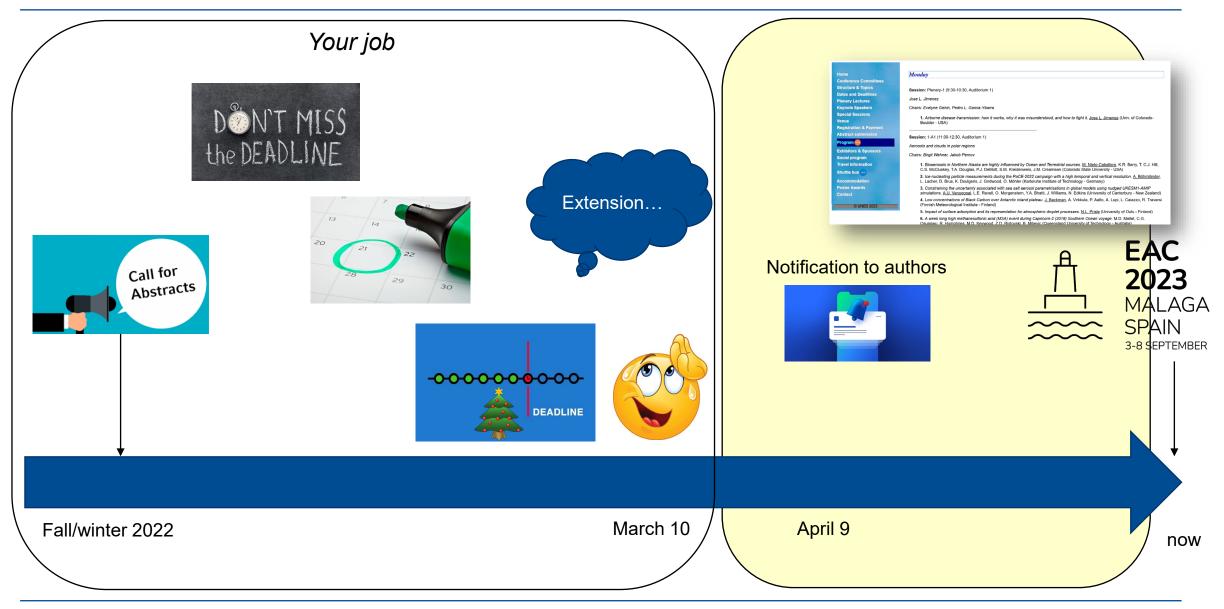






# From abstract writing to the conference program





### **Abstract review**



- Abstracts are reviewed by the chairs and co-chairs of the working groups of the European Aerosol Assembly (WG meetings open to everyone!)
- Every reviewer receives several dozens of abstracts for review
- Decisions to be made:
  - Accept/reject
  - If accepted: poster/oral
- Criteria:
  - Scientific quality
  - Quality of presentation
  - Is the scope suitable for an oral presentation
- Important to note
  - Oral slots are much more limited than poster slots
  - Oral sessions should have a "storyline"
  - Selection oral or poster is often not a question of the scienitifc quality!

### **Review result**



- Recommendation of reviewer:
  - Definitely oral
  - Could be oral or poster
  - Definitely poster

### Due to limited oral slots:

• If you submit an abstract as a poster, you will likely get a poster

• If you leave it open: much more likely to get a poster than oral talk

## A few do's and dont's



### Instructions·for·abstract·preparation·for·EAC2023¶

J.L.·First¹,·P.L.·Second²-and·J.C.·Third²¶

<sup>1</sup>Department of Aerosols, University of Somewhere, City, Postcode, Country¶

<sup>2</sup>Department of Particulate Matter, National Research Centre, City, Postcode, Country¶

Keywords: first, second, third, fourth, fifth.¶

Associated-conference-topics: 2.4, 1.6, 3.5 (up-to-three-conference-topics-for-review-and-allocation) Presenting-author-email: j.first@somewhere.edu¶

Please· use· this· template- for· abstract· preparation· andsubmit·your· abstract·in· pdf· format. ¶

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- Start each paragraph, except the first, with an indent. Justify the body of the text both left and right. Do not use page numbers. Keywords and listing of associated topics are there to draw attention to your abstract, and to help the organisers allocate the abstract to the most appropriate reviewers and conference
- Use-clear English-to-write-your-abstract, with-anemphasis-on-describing-what-is-new-and-why-it-shouldattract-the-attention-of-the-audience.
- Figures can be in colour or in black and white.

  Ensure that Figures and Tables have a caption and that they are numbered consecutively.

  ¶

Table 1. Comparison between theoretical predictions and experimental measurements.

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- References: should-be-made-in-the-style-(Rosner, 2000), Fernandez-de-la-Mora-and-Kozlowski-(2013) or-as-Neubauer et al-(2010). Examples of references are shown-below. Leave a blank line above the list of references, and also above the acknowledgements. ¶
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- Abschnittswechsel (Fortlaufend)

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  - Participants: should: not: make: requests: for: oralpresentation: of: several: papers: on: similar: subjects.
    We recommend: submitting: only: the: most: generalpaper for oral-presentation and the others for posterpresentation.

    | |
  - → The abstract should be submitted through the EAC2023 website: www.dfmf.uned.es/EAC2023 in pdf-format.•¶
  - The deadline-for-abstract-submission-is-February-28, 2023. Pease-try-to-submit-the-abstract-well-in-advanceto-avoid-last-moment-troubles. ¶

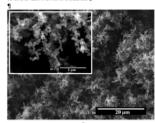
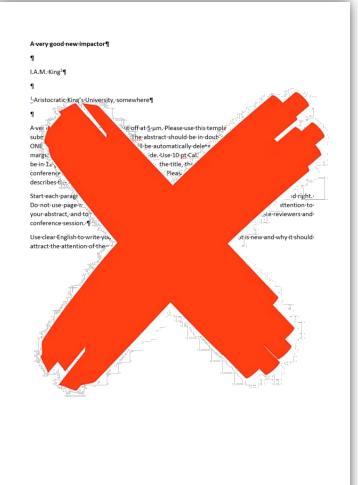
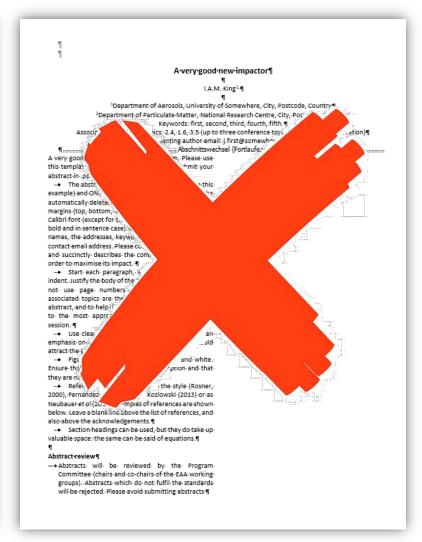


Figure 1.-Upper-view-SEM-micrograph-of-a-dry-ESdeposit-formed-by-carbon-nanoparticles.¶

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- Neubauer, N., Seipenbusch, M. and Kasper, G. (2010) Proc. European Aerosol Conference, EAC2010, Granada. ¶

Rosner, D.E. (2000) Transport Processes in Chemically-Reacting-Flow-Systems. Dover-Publications. ¶





## A few do's and dont's



1

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Table 1.-Comparison between theoretical predictions and experimental measurements.

Monthg	Measured- density-(μg/m <sup>3</sup> )¤	Predicted- density-(µg/m <sup>3</sup> )i
Jun¤	2.4¤	1.528×104n

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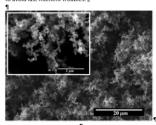


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A very good new impactor I.A.M. King1 <sup>1</sup>Department of Aerosols, University of Somewhere, City, Postcode, Country <sup>2</sup>Department of Particulate Matter, National Research Centre, City, Postcode, Country Keywords: first, second, third, fourth, fifth, Associated conference topics: 2.4, 1.6, 3.5 (up to three conference topics for review/ Presenting author email: j.first@somewhere.edu iff at 5 um. It car Use clear Engli be used fi emphasis on design attract the atte example automatica Calibri font (ex bold and in sent 25hown names, the addres ferences, and contact email address and succinctly describe order to maximise its impa Please buy it and make Start each paragraph, except the or in black and white. Ensure that Justify the body of the text both left a caption and that they are page numbers. Keywords and led are there to draw attention to the organisers allocate. appropriate reviewers and Use clear English emphasis on descri attract the attention Figures of Ensure that I they are nut 2000), F ror as re shown Neubau below ferences, and ut they do take up valuable space: aid of equations. indent. Justify the body in text both left and right. Do Use cle rice your abstract, with an use page numbers. Keywords and listing of emphasis on describing what is new and why it should associated topics are there to draw attention to your attract the attention of the audience. abstract, and to help the organisers allocate the abstract Figures can be in colour or in black and white. to the most appropriate reviewers and conference Ensure that Figures and Tables have a caption and that they are numbered consecutively. Use clear English to write your abstract, with an References should be made in the style (Rosner, emphasis on describing what is new and why it should 2000). Fernandez de la Mora and Kozlowski (2013) or as attract the attention of the audience. Neubauer et al (2010). Examples of references are shown Figures can be in colour or in black and white. below. Leave a blank line above the list of references, and Ensure that Figures and Tables have a caption and that also above the acknowledgements. they are numbered consecutively

A very good impactor has a cut off at 5  $\mu m$ . It can be used for anything and I don't really know why.

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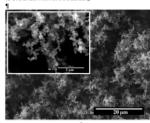


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### Development and Characterization of a 3D-printed Differential Mobility Analyzer

Energy Environment and Water Research Center, The Cyprus Institute, Aglantzia, 2121, Nicosia, Cyprus

Keywords: 3D-printing, Differential Mobility Analyzer (DMA), Tandem DMA, Characterization Contacts: c.loizides@cyi.ac.cy

#### Introduction

one of the most important instruments for it of aerosol particles (Knutson - Whitby based on their electrical mobility. Rece efforts have been made to reduce their manufacturing st and weight (Barmpounis et al., 2016), while mintaining their good performance. At the same time, 3D-printing technology is rapidly evolving offering new methods and materials with unique properties. In this work, we have built and characterized a 3D-printed DMA (3Dp-DMA), and its performance was compared to that of a metallic custom-made DMA

### Methods

(Formlabs, Form-3) using resin ough) as material. The surfaces that become conductive (i.e., central rod and inner surface of the outside electrod), were painted with graphite spray (DUE-CI, Product N-77

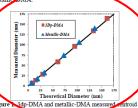
We used a Tandem-DMA system to acterize the 3Dp-DMA and its metallic counterpart. Particles were generated by an atomizer TSI, Model 3076), using 0.5% w/v (NH<sub>4</sub>)SO<sub>4</sub> lution. Sub-10-nm particles were produced by ustom-made Glowing Wire aerosol generator Peineke et al., 2006). The particles produced by h tomizer were dried by a silica-gel drier, then charge neutralized by an 241 Am source particle neutralizer (GRIMM, Model 5.522) and led to the inlet of custom-made long-metal DMA (L-DMA) which w used to produce a monodisperse sample. An ultrafii Condensation Particle Counter (CPC: TSI, Mod 3025A), was used to measure the particle number concentration downstream of the L-DMA. T nonodisperse outlet flow of the L-DMA was then led b the characterized DMA (i.e., first the 3Dp-DMA and then the metallic-DMA). A second CPC (7SI, Model 7640) was used to measure the particle concentration at the outlet of the characterized DMA. For every measurement, the L-DMA was operated at a different fixed voltage (corresponding to a specific particle diameter), while the voltage in the characterized DMAs was increased stepwis

The above-mentioned setup, was used to measure the number of particles that penetrated through the characterized DMA at different voltages. Apart from the measurements meoretical values of

the penetration were calculated by using the convolution of the transfer functions of the L-DMA and the characterized DMA for diffusive particles (Stolzenburg, 1988). The results from each measurement for the 3Dp-DMA and its metallic counterpart, were log-normally fitted and compared to their respective theoretical values. CPC counting ratios and losses in the tubing for particles smaller than 20 nm were also included in the calculations.

#### Conclusions

DMAs were in good agreement. Most importantly, their deviations from theoretical centroid particle diameter (which corresponds to the peak of the lognormal fitting curve), were less than 2% as shown in Figure 1. Finally, the resolution of the 3Dp-DMA. which corresponds to the width at half maximum of metallic BMA



n summary, we have developed a 3D-prii DMA that exhibits a performance that is very similar to its metallic counterpart. This paves the way towards the development of lightweight/inexpensive ruments for aerosol characterization

### References

Knutson, E. O., Whitby K. T. (1975). Aerosol

Barmpounis K Maisser A Schmidt-Ott A Biskos G (2016) Aerosol Sci Technol 50: 2-5 Peineke C., Attoui M.B., Schmidt-Ott A. (2006). Aerosol Sci., Technol. 37: 1651 - 1661.

Stolzenburg, M.R., Ph-D thesis (1988). University of Minnesota, Order No. 8900565

A short and concise title

A clear structure

A short, but informative introduction, putting your research into perspective

A convincing story

Results!

Brief summary → what can the audience expect to learn from your contribution?

# Will it be an oral or a poster presentation?









# Take home messages



- Guide the reviewer through your work
- Use a clear structure, follow the conference quidelines
- Keep in mind that the reviewer does not necessarily know the details and background of your work
- Include results in the abstract, even if preliminary
- Provide a short and comprehensive summary
- Never submit a half-empty abstract page!



announces the first



20 & 21 February 2024

at the University of Vienna



Abstract submission and registration will open soon https://www.info.gaef.de/start2024