



Marie Skłodowska-Curie
Actions

Summer School on RF High-Power Effects (5-9 July 2021)

Course Introduction

V.E. Boria, P. Soto, M. Bayarri
Technical University of Valencia
(UPV)



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Course Agenda

- Monday 5th July – Introduction and Basic Concepts
 - 09:00 – 11:00** **Introduction to the Course (RF High Power Effects: Practical Aspects)**
Prof. Vicente Boria (UPV)
 - 11:00 – 13:00** **Introduction to RF High Power Breakdown Effects and PIM**
Mr. David Raboso (European Space Agency - ESTEC)
- Tuesday 6th July – SEY & ESA-VSC European High-Power Laboratory
 - 09:00 – 11:00** **Introduction to SEY: Theory, Models and Measurement Techniques**
Prof. Pablo Soto (UPV) and Dr. Rafael Mata (UVEG-VSC)
 - 11:00 – 13:00** **ESA-VSC European High Power Space Materials Laboratory**
Dr. Rafael Mata (UVEG-VSC) and Mr. David Raboso (ESA - ESTEC)



Course Agenda

- Wednesday 7th July – Modeling Techniques of Multipactor and Corona Effects

09:00 – 10:00

**CST STUDIO Suite (FEST3D, SPARK3D and CST Particle Studio):
EM-based Software Tools for Modeling and Prediction of Multipactor
and Corona Effects**

Dr. Carlos Vicente (Dassault Systemes España SLU)

10:00 – 11:00

AURORA SOFTWARE & TESTING (AURORASAT): History and Evolution

Dr. Jordi Gil and Dr. Carlos Vicente (Dassault Systemes España SLU)

11:00 – 13:00

**Practical Examples of RF Breakdown (Multipactor Effect) Modelling of
Microwave Components with Commercial Tools**

Mr. Joaquin Vague and Dr. Carlos Alcaide (UPV), Dr. Javier Ossorio (UPV-VSC)



Course Agenda

- Thursday 8th July – Measurement Techniques of RF High-Power Effects
 - 09:00 – 11:00** **RF High Power Breakdown Effects Testing**
Mr. Òscar Monerris (Val Space Consortium - VSC)
 - 11:00 – 13:00** **Passive Intermodulation (PIM) Measurements (Multicarrier Scenarios)**
Mr. Davide Smacchia (Val Space Consortium - VSC)
- Friday 9th July – ESA-VSC High-Power Testing Facilities
 - 09:00 – 11:00** **ESA and VSC RF High Power Testing Facilities**
Mr. David Argilés (Val Space Consortium - VSC)
Mr. David Raboso (European Space Agency - ESTEC)



Organizers

- *Dr. Vicente Boria, Summer School Coordinator*
 - *Dr. Pablo Soto, Speakers Coordinator*
- *Dr. Santiago Cogollos, Meeting Moderator*
 - *Mrs. Maria Bayarri, Management*



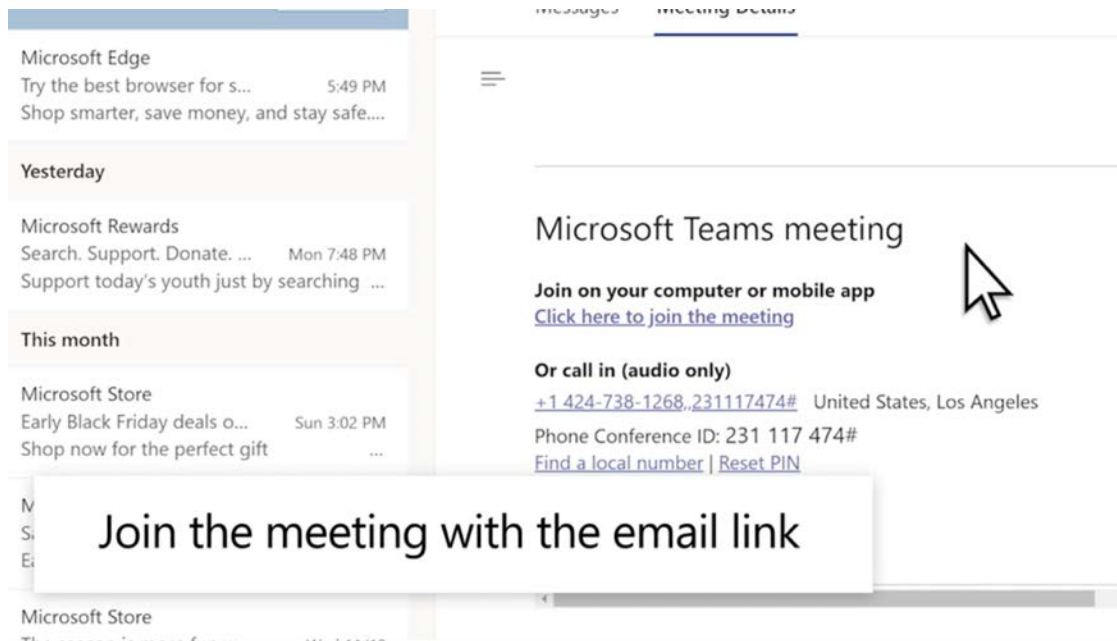
Speakers

- **Prof. Vicente Boria** - *Technical University of Valencia, UPV*
- **Mr. David Raboso** - *European Space Agency - ESTEC*
- **Prof. Pablo Soto** - *Technical University of Valencia, UPV*
- **Dr. Rafael Mata** - *University of Valencia, UVEG-VSC*
- **Dr. Carlos Vicente** - *Dassault Systemes España SLU*
- **Dr. Jordi Gil** - *Dassault Systemes España SLU*
- **Mr. Joaquin Vague** - *Technical University of Valencia, UPV*
- **Dr. Carlos Alcaide** - *Technical University of Valencia, UPV*
- **Dr. Javier Ossorio** - *Technical University of Valencia, UPV-VSC*
- **Mr. Òscar Monerri** - *Val Space Consortium - VSC*
- **Mr. Davide Smacchia** - *Val Space Consortium - VSC*
- **Mr. David Argilés** - *Val Space Consortium - VSC*

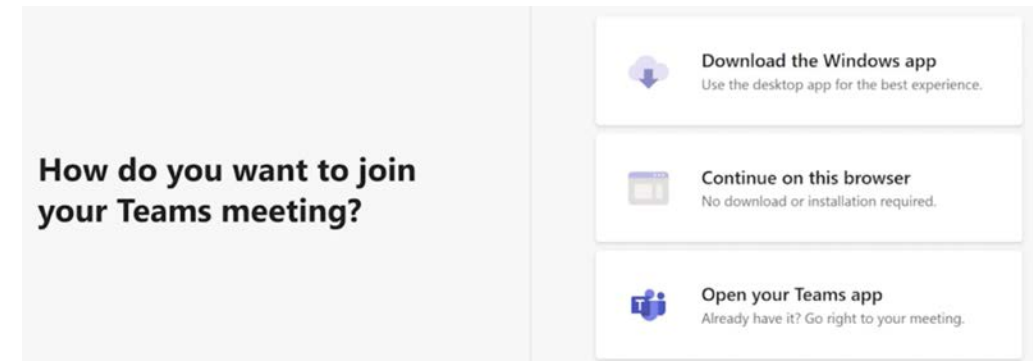


Online Summer School Platform: Microsoft Teams – Join the Meeting

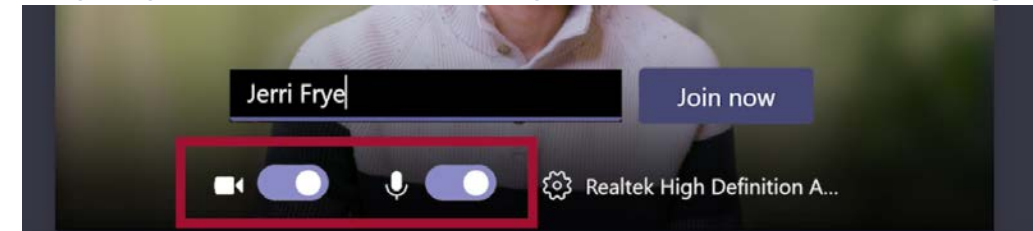
1. In your e-mail invitation, select **Click here to join the meeting**.
You can also use a dial-in number and conference ID from the email to call in.



2. Select an option:



3. Type your name and choose your audio and video settings.



4. Select **Join now**.



Online Summer School Platform: Microsoft Teams – Join the Meeting

Meeting Days Links

Monday **5th July** – [Introduction and Basic Concepts](#)

Tuesday **6th July** – [SEY & ESA-VSC European High-Power Laboratory](#)

Wednesday **7th July** – [Modeling Techniques of Multipactor and Corona Effects](#)

Thursday **8th July** – [Measurement Techniques of RF High-Power Effects](#)

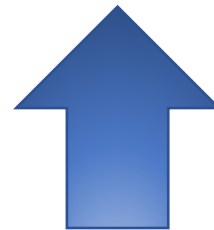
Friday **9th July** – [ESA-VSC High-Power Testing Facilities](#)



Online Summer School Platform: Microsoft Teams – Join the Meeting

Attendance Certificates

Please, remember to **join the meeting with your full name** in order to issue the corresponding attendance certificates.





Online Summer School Platform:

Microsoft Teams – During the meeting

Control Bar



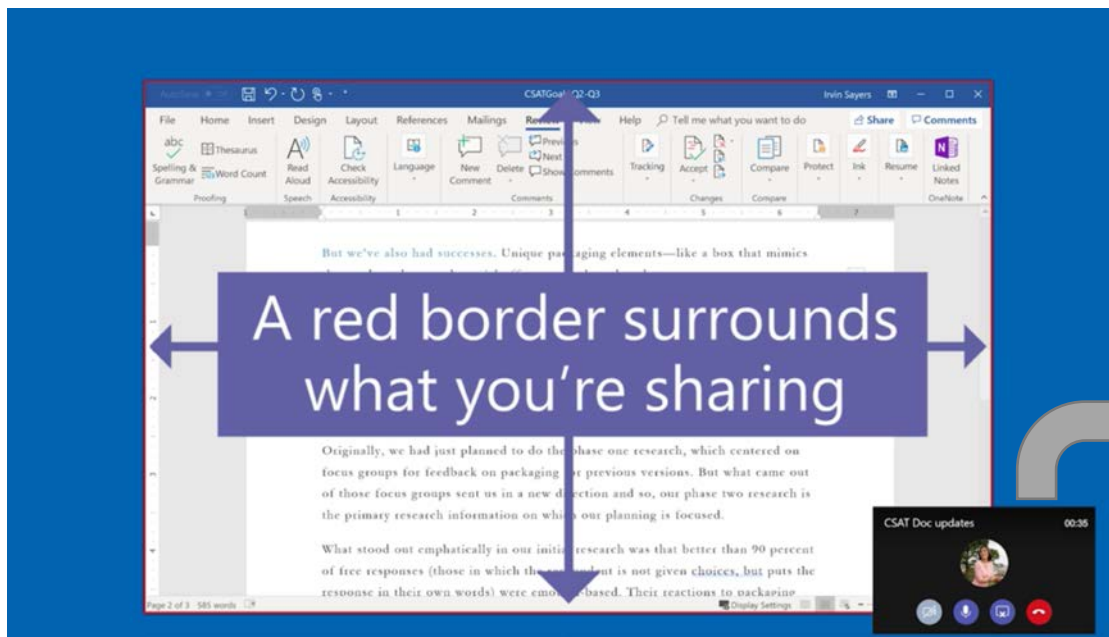
1. **Participants** show/hide
2. **Chat** show/hide
3. **Raise Hand** to let others know you'd like to speak up
4. **Breakout rooms** to let attendees hold smaller, more focused discussions.
5. **More actions** (record, change background camera, meeting notes...)
6. **Camera** on/off
7. **Micro** mute/unmute
8. **Share content** Desktop / Window / PowerPoint / Whiteboard
9. **Leave** the meeting

Online Summer School Platform: Microsoft Teams – Tips for Speakers

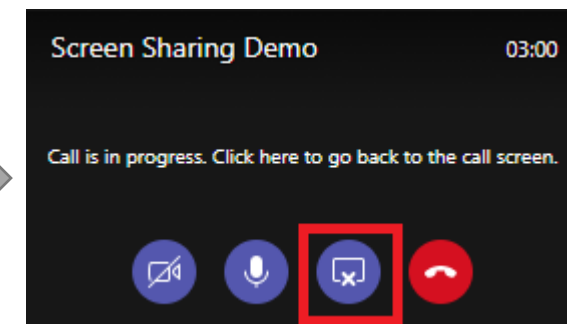
Select **Share**  and choose what do you want to share:

Don't forget to **unmute your microphone**.

- **Desktop** lets you show everything on your screen.
- **Window** lets you show a specific app.
- **PowerPoint** lets you show a presentation.
- **Browse** lets you find the file you want to show.

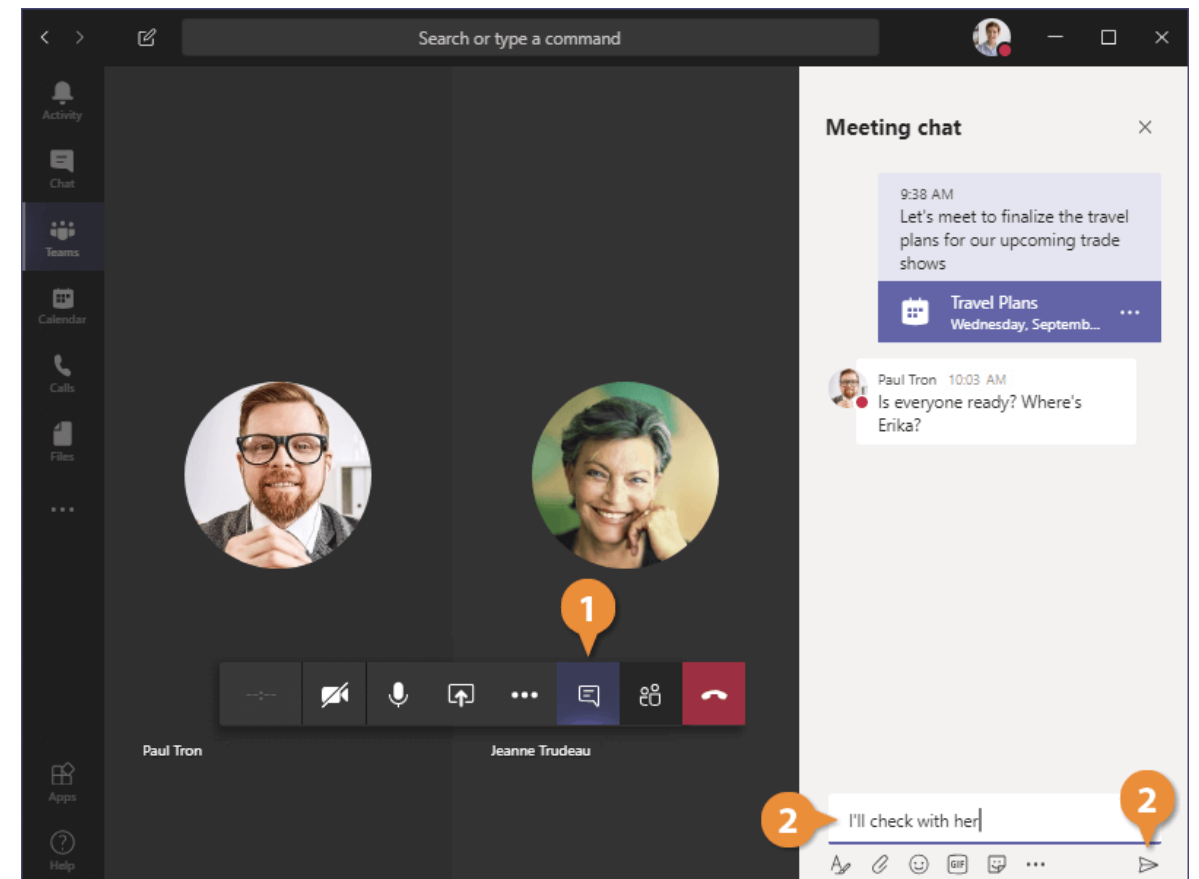
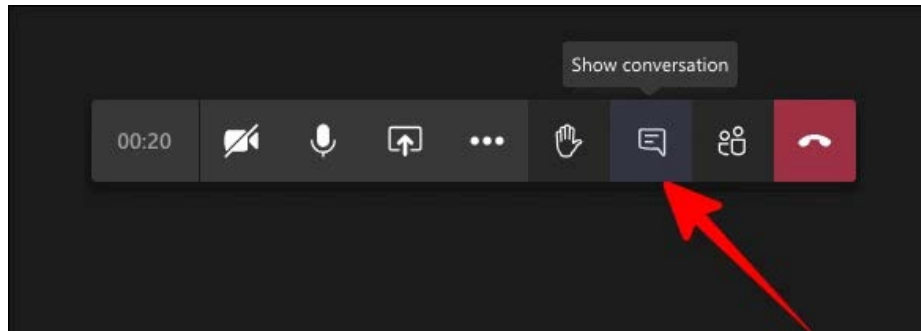


Done? Select **Stop sharing**
to stop showing your screen



Online Summer School Platform: Microsoft Teams – Tips for Speakers

After stop sharing your presentation review the **Meeting Chat**, in order to answer potential questions





Online Summer School Platform: Microsoft Teams – Need more help?

[Microsoft Teams Video Training](#)

[Download Microsoft Teams](#)

or

[Access to web platform](#)



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Acknowledgments

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UNIVERSITAT
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European Space Agency
Agence spatiale européenne



VAL SPACE
CONSORTIUM



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