

PSMA Capacitor Committee Minutes/Agenda April 2020

Attendees April 2020

Fred Weber – Future Technology Worldwide

Pierre Lohrber – Würth

Wilmer Companioni – KEMET

William Mak - KEMET

Eduardo Drehmer – TDK

Rob Haywood – Gore

Scott Franco – CDE

Ed Lobo - CDE

Mark Scott – Miami U / IEEE

Hengzhao Yang – New Mexico Institute of Mining and Technology / IEEE

John Horzepa - PSMA

Frank Puhane – Würth

Nick Visic – AISHI Capacitors

Thomas Gietzol – Collins

Mike Dombrow – Faratronic

Mike Dombrow Jr – Faratronic

Ed Herbert – PSMA – Magnetics Workshop

Joe Horzepa – PSMA

Matt Wilkowski – Magnetics Committee – Workshop

Phil Whitmire – CDE

Victor Boyadzhyan – AITech Systems

Raj Pulugurtha – Florida International University

Committee Webpage

The PSMA Webpage have been completely updated, please take a moment and check them out!!!

The new Webpage tab “Educational Resources” has been added to the Capacitor Committee Webpage. It includes the recorded Webinar and additional training presentations.

We can always use more!!! If you have a training presentation or file please upload it to the following DropBox and let me know:

<https://www.dropbox.com/request/Nq4EYFznmfUKY7Qdiicu>

Webinar

Capacitor Fundamentals 401 – How to Define and Choose Your Capacitor

- Need to define Title
- **Need Volunteer(s) to present – nonCapacitor FAE. Need product designer**
- Define Agenda
- Choose a date

PSMA Capacitor Committee Minutes/Agenda April 2020

Roadmap Webinar 2021 Ideas – Reviewing Options

Mark Scott – Conditional Monitoring for Capacitors- Good for ½ of the Webinar

Need to pair this research with a manufacturing partner to discuss technologies or processes that will help with reliability

Mark Scott will submit a bullet list of Film Cap points to give prospective film cap suppliers a picture of what the first half of the Webinar will reflect.

FUTURE ROADMAP Webinar Ideas

NEED IDEAS!!!

New technologies for Broadband application Capacitor support

Tantalums

New in Ultra Caps – Takata, more than ELC – Hybrid package?

Application Driven – how different technologies behave – Filtering, Inverters (DC Link), Power Supplies, compare and contrast technologies and certain parameters for each technology.

Also include Environmental technology discussion (i.e. Heat, Vibe, EMI).

Wurth – Power Supply - DC Link / MLCC DC bias

EPCOS – Filtering X/Y Caps, Rob Haywood – Gore’s new dielectrics, Wurth - Polymers with higher capabilities

Workshop Mission Statement –

The PSMA Capacitor Committee Annual Workshop aligned with APEC has a mission to educate the attendees on capacitor trends, technologies, and innovations. Wherever and whenever applications need energy, Capacitors are at the spotlight, and as energy moves the world it is incumbent for everyone to keep their finger on the pulse of capacitor issues. PSMA’s Capacitor Committee is committed to present the best material available to meet the industry’s needs.

Workshop 2020 – Overview –

Theme – How to choose and define capacitor usage for various applications, wideband trends, and new technologies.

The workshop is scheduled to have 3 Webinars on three consecutive Tuesdays starting April 21. Session 1 and session 2 will each be 2 hours long. Session 3 & 4 will be combined into a 2.5 hours session.

PSMA Capacitor Committee Minutes/Agenda April 2020

Possible Workshop Presentation from Mark Scott to cover Session 1

Possible presentation from Raj on high density, die level caps – Workshop and Roadmap

ALL QUESTIONS WILL BE ANSWERED AND WE WILL GO PAST OUR SCHEDULED TIME SO EVERYTHING GETS RECORDED.

Fred Weber will lead off each session with an overview of the Capacitor Committee. Pierre will than follow with an overview of the current Session(s) and introduce the bio's of each speaker.

If a topic is getting an overabundance of interest, we will create a follow up conference call to tackle the issue directly.

There will nbe 2 surveys available for attendees. The first will be from the Capacitor Committee hoping to get advice and suggestions for improvement and themes for 2021. The second will be from Mark Scott (iEEE) for those that desire Continuing Education Credits. Comletion of this survey will be mandatory for anyone to get their CE certificate.

Workshop – Continuing Education

Mark Scott has registered both the Capacitor Workshop and the Magnetics Workshop for Continuing Education Certificates. Attendees wanting credit will be charged \$5.00 to receive their certificate.

Here is the link to the information:

<https://www.ieee.org/education/continuing-education.html>

Here is the link for the application:

<http://fm34.triple8.net/fmi/iwp/cgi?-db=IEEEapps v117&-loadframes>

**Add Poster Session for more Academic Input.
To be added to demo area!**

There will be no posters this year. We will try again next year. We had 2 posters scheduled before everything changed.

PSMA Capacitor Committee Minutes/Agenda April 2020

Industry Session 2020 –

We will have a 7-session slot on Tuesday morning of APEC.

Capacitors That Stand Up to the Mission Profiles of the Future – eMobility, Broadband

Add the PSMA logo to all slides, on bottom left of their slides. The presenter can also add their corporate logo to the upper right. (Discreet Branding)

2nd slide should be bio of the presenter.

Next Meeting: Thursday April 23 at 9:00AM CDT

Agenda

- I. Review Workshop Attendance, and Feedback**
- II. Brainstorm ideas for 2021**
- III. Discuss IS Webinar, partial list**
- IV. Discuss Roadmap Webinars – Brainstorm topics include some IS Presentations, Also Mark Scott and Raj**
- V. Brainstorm Ideas for Industry Session 2021**
 - Discontinued Caps – EMI Filter (large ESR) – transfer caps**
 - New technology for high voltage X&Y caps, plus derating Guidelines.**
 - Ripple Current to determine Cap technology**
- I. Discuss Fundamental Webinar 401**
- II. Raj looking for possible presenters for PowerSoc Conference in Philadelphia**

GET MORE COMMITTEE PARTICIPANTS