29 July 2021

Attendees: Gabriel Vazquez/KSC, Manny Soriano/JPL, Jim Lukash/LM, Caroline Chan/LM, Karen Burnham/EMA, Randy Jost, Tony Platko, Fred Heather, Jen Dimov/GSFC, Flynn Lawrence, Geoff Day, Guillermo Gonzalez, Nathan Moyer, Jim West, Nika Amralah/SSSOC, Melissa Schwager/Ford, Al Lau, Charles Jullien/Safran Electronics, Ed Gonzales/JPL, Janessa Buhler, Nelson Green/JPL, Ali Foudazi, Dongsheng Zhao/ESA, Geoffrey Lewis, Jamal Shafli, Jim West/OSU, Johannes Wolf, Nelson Huang/JPL, Irfan Majid, Carlos Zavala/NASA, Kevin Pham/JPL, Ray Perez/JPL, Mike Oliver, Bill Hatch/JPL, Thomas Hin, Fin O’Connor, Adrian Sun, Mehdi Bahador

Meeting Notes (attached are the slides)

* Welcome everyone, introduce
* Brief through agenda
* Invitation to become TC8 committee Officer-at-Large (non-voting role)
  + Elected officer election in 2022
* Officer at Large nominations
  + None during meeting
  + Email Jim, Jen, and/or Manny if you are interested for 2021-2022 term
* Review TC8’s charter and scope
* TC8’s diversity and GOLD (graduates of the last decade) commitment
  + We are the most diverse TC in EMCS
* Subcommittees
  + None presently, but we welcome them!
  + Requirements to form a subcommittee outlined
* Aircraft Power Systems subcommittee proposal – Charles Jullien
  + Electrical engines, > 1 MW, and thus impacts to overall aircraft designs
  + TC8 has experience in high power
  + Discuss solutions on the box and system side
* TC8 Accomplishments
  + Various symposia, a lot of standards work done and upcoming
  + Invitation to contribute to 2022 IEEE Aerospace/Big Sky
  + TC8 hosted 37% of demonstrations at 2020 Symposium
  + Best paper nominee
* 2021 Virtual Symposium
  + 2 sessions, 6 papers total including one best paper nominee; 1 demo 1 workshop
* EdCom Demonstrations Manual
  + Randy: A lot of activities, but need to be conscious of costs (looking for lower cost options/models)
  + Karen: 2015 manual was buried in EMCS website
    - Jen and Randy have been working off of this, with updates since then
* Standards
  + Various releases, some tailoring
  + MIL-STD-461 and AIAA standard update work has not started
  + ISO meeting virtually
* Outreach
  + Pablo Narvaez for IEEE Distinguished Lecture Series including India, Germany, El Salvador, Argentina
* *Handbook of Aerospace Electromagnetic Compatibility* plug
* 5 Year Plan
  + 2022 Spokane, WA held in-person
  + Special sessions? Workshop? Or other offerings? Contact Jim, Jen, and/or Manny
  + Ray: let’s see once we’re past the 2021 Virtual Symposium hump
  + Pandemic, screen fatigue
* Student Success Story – Nika Amralah
  + Mentoring and networking since 2019 Symposium NOLA
  + Multiple conference papers
  + Graduated from undergrad, with full-time job and masters program acceptance
* University Outreach
  + Contact us
* LinkedIn group
  + Live, maintained by Jen
  + Should be publicly searchable, otherwise contact us to add you
* Lightning Standard – Fred Heather
  + Proposed IEEE-STD
  + Existing standards are more test methods and recommended practices, and often do not have strong teeth
  + Goal is to progress to complete standard with requirements
  + PAR-2838 working group, join Fred heatherf@ieee.org
* New Business
  + TC2: IEEE-STD-P2855 Shielding characterization from DC to 40 GHz
    - POCs in TC8: Karen and Charles, chair is Huadong Li  
      [Huadong.li@molex.com](mailto:Huadong.li@molex.com), [karen.burnham@gmail.com](mailto:karen.burnham@gmail.com), charles.jullien@safrangroup.com
* Future of TC8 and EMC Society – How to best serve our members?
  + Adapt, or die
  + Declining membership and activity
  + Discussion
    - Karen: mentoring is key (i.e. Nika), especially 1:1 or similar small groups  
      How do we scale this? Or how to create non-organically?  
      Corporate models are awkward  
      Jim: Pablo’s talks, educational outreach to take off  
      Ray: future is dependent on student recruitment; scale Pablo’s talks with more speakers and online, open to all  
      target university aerospace groups, and EE/CS groups
    - Ray: more online talks, maybe with EMCS reach/visibility, targeted at schools  
      Jim: online lecture series let’s say 1-4x/year shouldn’t be much work to scale
      * Action: solicit volunteer speakers, TC8 committee to devise format
    - Nelson Green: how do we introduce interns to EMCS 🡪 host presentations that are summer intern targeted; interns have mentors already
    - Continue the conversation, contact fellow TC members and our officers
* Closing
  + Next TC8 meeting in-person at Spokane 2022 (should have Webex too?)
  + “To A Mouse” by Robert Burns