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, 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