TCB Council
Workshop & RF Exposure Training

October 23 – 26, 2023 * Baltimore and Online * www.tcbcouncil.org

Activity Schedule

Monday, October 23	7:00 AM	Onsite Registration & Breakfast
	9:00 AM to 5:00 PM	RF Exposure Training Day One*
Tuesday, October 24	9:00 AM to 5:00 PM	RF Exposure Training Day Two*
Wednesday, October 25	7:00 AM	Onsite Registration & breakfast
	9:00 AM to 5:00 PM	Workshop Day One (FCC)
	6:00 PM to 9:00 PM	TCBC Social – Pratt Street Ale House
Thursday, October 26	8:00 AM	TCB Council Membership Meeting
	9:00 AM to 5:00 PM	Workshop Day Two

*RF Exposure Training

A special two-day training will update the TCB Council community on RF Exposure phenomena, measurements, guidance, KDBs, rules and regulations for FCC, ISED and RED. Registrants will learn the latest technologies, techniques and regulatory expectations.

Additional Information

All activities are In-Person and Online (except for the Wednesday social event). Agenda is observed in Eastern Standard time (EST).
Workshop Registration is available at www.tcbcouncil.org/. Login to register.

TCB Council LMS

Workshop Materials

Workshop materials will be provided on the new TCB Council LMS. All registrants (both online and in-person) will receive a link to the classroom 24 hours in advance of the first session. Participants will have access to classroom materials and videos for up to 10 days.

Social – Pratt Street Ale House

Be our guest at the evening Social event, walking distance from the Workshop.

RF EXPOSURE TRAINING
WORKING AGENDA
MONDAY, OCTOBER 23, 2023
DAY ONE

start	end	Presentation	Presenter
9:00	9:10 AM	Welcome & Workshop Logistics	Chris Harvey
9:10 AM	9:35 AM	Intro RF Exposure (RFx) and Evolution	Q Balzano
9:35 AM	12:00 PM	FCC, ISED and RED RF Exposure Rules (RFx) and KDBs	
	10:35 AM	RFx FCC and ISED	Mark Briggs
	10:45 AM	BREAK	
	11:25 AM	RFx in RED	Michael Derby
	12:00 PM	Global RFx Requirements	Nate Grinager Claudia Cordon Wilson Silva
12:00 PM	1:00 PM	BREAK - Lunch	
1:00 PM	3:00 PM	Types of RFx in Regulatory Approvals	
		Mobile vs Portable	Kaitlin O'Keefe
		SAR and MPE	Kaitlin O'Keefe
		SAR Measurements	Kaitlin O'Keefe
		BREAK	
		APD/IPD/Magnetic Field/Nerve Stimulation	Kaitlin O'Keefe
		SAR Simulations	Kaitlin O'Keefe
	3:00 PM	Role of Simulations in approvals	Kaitlin O'Keefe
3:00 PM	3:20 PM	BREAK - Snack	
3:20 PM	3:45 AM	IEC 62209-3 Vector Measurement Based Systems	Richelieu Quoi
3:45 PM	4:15 PM	Module Integration into Portable Hosts	Robert Paxman Michael Derby
4:15 PM	4:45 PM	RFx and Product design - TAS/Sensors/Power Reduction	Steve Liu
4:45 PM	5:00 PM	Day One- Wrap up and Q&A	Presenter Panel

TCB Council
Workshop & RF Exposure Training
October 23 – 26, 2023 * Baltimore and Online * www.tcbcouncil.org

RF EXPOSURE TRAINING
WORKING AGENDA
TUESDAY, OCTOBER 24, 2023
DAY TWO

Tuesday October 24, 2023			
start	end	Presentation	Presenter
9:00 AM	9:05 AM	Convening and Logistics	Chris Harvey
9:05 AM	10::00 AM	Video Demonstration of RF Exposure Measurements	Steve Liu
10:00 AM	10:20 AM	BREAK - Coffee	
10:20 AM		The Manufacturer/ Lab/TCB Game Planning	Steve Liu
		KDB Inquiries - The Do's and Don'ts	Steve Liu
	12:00 PM	Don't fear the PAG (what is PAG, and how to prepare)	Steve Liu
12:00 PM	1:00 PM	LUNCH	
1:00 PM		SAR Review of FCC Documents	Kaitlin O'Keefe
		SAR Review Test Reports	Bich Nguyen
	2:45 PM	SAR Review processes, tune-up, power mismatch management, organization and upload	Bich Nguyen
2:45 PM	3:00 PM	BREAK - Snack	
3:00 PM	3:30 PM	After the FCC Grant - Surveillance and SAR	Jennifer Sanchez
3:30 PM	4:00 PM	Future of Equipment for RFx APD Assessments	Niels Kuster
4:00 PM	5:00 PM	Day Two -Panel Session with Industry Discussion	Robert Paxman

TCB COUNCILWORKSHOP
WEDNESDAY OCTOBER 25, 2023
DAY ONE

(FCC Topics, order and presenters are subject to change)

FCC Session Topic	Presenters
1.1 Introduction	Muli Kifle
1.2 Publication Update & Administrative Notes	Jim Szeliga
1.3 Equipment Authorization System- Updates	George Tannahill
FCC HQ 2.1 Part 15 and Spectrum	Aole Wilkinsel
Break	
EMC and Related Topics 3.1 Updating References to EA-related Standards 3.2 Part 15.255 rules NPRM– Update 3.3 KDB 971168 – Digital Transmitters	Steve Jones
Lunch Break	
3.4 Improving MPAG Processing	Alfonso Tarditi
3.5 EMC Updates	Dusmantha Tennakoon
3.6 KDB 987594 UNII- 6GHz	Dusmantha Tennakoon Jim Szeliga Corey Cahill
3.7 Part 96 – CBRS Updates	Corey Cahill
3.8 KDB 996369 – Modules	Jim Szeliga
RF Exposure OET Lab	
4.1 KDB 680106 - Wireless Power Transfer	Alfonso Tarditi
4.2 KDB 447498 - RF Exposure Policies	Tim Harrington Alfonso Tarditi
4.3 RF Exposure Procedures	Jake Novicky
Break	
5.1 Review of TCB PAG Submissions	Len Knight
5.2 TCB Market Surveillance	Dusmantha Tennakoon
5.3 KDB 986446 – FCC 22-84/Covered Equipment	George Tannahill Dana Shaffer
Conclusion – FCC Session Summary: Q & A	Muli Kifle

TCB COUNCIL WORKSHOP
THURSDAY, OCTOBER 26, 2023
DAY TWO

Time		Session Topic	Presenters
9:00 AM	9:15 AM	Welcome & Workshop Logistics	Chris Harvey TCB Council Executive Director
9:15 AM	10:15 AM	NIST – MRA Updates	Ramona Saar and Nathalie Rioux National Institute of Science and Technology (NIST)
10:15 AM	10:30 AM	BREAK	
10:30 AM	12:00 PM	ISED Canada – CEB Updates	Nicolas Desmarais and Jason Nixon ISED Canada, Certification and Engineering Bureau
12:00 PM	1:00 PM	BREAK	
1:00 PM	2:00 PM	ISED Canada Standards – DRS Updates	Stephan Meyer, Yan Losier, ISED Canada, Directorate of Regulatory Standards
2:00 PM	2:30 PM	Europe Report – RED and UK-RER	Michael Derby Element Materials Technology
2:30 PM	2:45 PM	BREAK	
2:45 PM	4:15 PM	KDB Sharing Session	Greg Czumak ACB Inc
		TBD	

Login to register. Register for one or both the RF Exposure Training and the TCB Council Workshop. Space is limited in the Hotel. Reserve your room ASAP.