

MEETING Minutes				Chapter Officers			
Meeting Type:	Technical Presentation			Chairperson:	Doug Parker	doug.parker@adtran.com	
Subject:	Sources, Modes & Paths of Electrical Noise In Switch Mode Power Supplies			Co-chairperson:	Jeff Whitmire	jeff.whitmire@adtran.com	
Date:	21 Feb. 2008			Treasurer:	Jim Stone	James.A.Stone@us.ul.com	
Location:	ADTRAN Inc. 2 East Conference Center Room #273			Secretary:	Jack McFadden	jack.mcfadden@wyle.com	
Champion:	Doug Parker						
Attendees:							
IEEE Members:	28	Guests:	29	Students:	0	Total	57
Minutes recorded by J. McFadden							
Meeting Agenda:							
<ol style="list-style-type: none"> 1. Social/Meal/Sign-In 2. Sponsor Remarks 3. Chapter Business 4. Technical Presentation 5. Question/Answer Session 6. Adjourn 							
Meal Sponsor :				Michael Lehmann		Intertek	
Technical Presenter:				Steve Robinson		ADTRAN, Inc.	
Discussion							
Item 1; The meeting was chaired by Doug Parker. He welcomed everyone and requested they sign-in.							
Item 2; Mr Michael Lehmann was introduced by Doug Parker. He described Intertek's vast test capabilities; briefly detailed their long history and he emphasized their desire to be the customer's first choice for their testing requirements.							
Item 3; Chapter business was championed by Doug Parker. The information included chapter finances, upcoming events, sponsorship and volunteer opportunities for the meetings participates							
Item 4; The technical presentation, Sources, Modes & Paths of Electrical Noise In Switch Mode Power Supplies, was presented to the group by Mr. Steve Robinson, ADTRAN. The presentation described the characteristics of Buck and Flyback Converters. It detailed the ideal circuit, the "real" circuit, waveforms, spectral analysis, and components: capacitors (ideal vs. real), inductors (ideal vs. real), recommended printed circuit board layouts practices plus he provided switching power supply trouble shooting guidelines. He further explained common and differential mode noise within the switching power supplies.							
Item 5; Seven questions were asked. They ranged from transformer construction, snubber use/limitations, the effectiveness of snubber circuits and their impact on the power supplies' efficiency, wire wound transformers versus planar transformer (cost vs. effectiveness), active PFC simulation, EECORE and toroids and definition of the "Y" capacitors.							
Item 6; Doug Parker adjourned the meeting at approximately 8:00 pm.							
Action Item List							
Champion Name	Description	Initial Due Date	Status	Close Date			
All	Brainstorm ideas to promote EMC awareness and utilize the Society's resources in a positive manner	TBD	Open				

TBD = to be determined