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THE AUDIO ENGINEERING SOCIETY

BULLETIN



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New Insights into an Old Problem
Hum, Buzz and Ground Loops
Bill Whitlock, Jensen Transformers

date	Tuesday, 27 April 2010
time	7:00 PM
where	Ryerson University RCC 204 , Eaton Theatre, Rogers Communications Building 80 Gould Street, Toronto, ON <i>Corner of Gould and Church, east of Yonge St (Dundas Subway)</i>
<i>For parking info and map, goto www.ryerson.ca/parking/</i>	
.....	
Pre-Meeting "Dutch Treat" dinner 5:00 pm at the Pickle Barrel (corner of Edward and Yonge in the Atrium)	
This month's meeting will be available live on-line, courtesy of Ryerson University at www.torontoaes.org .	

PRESENTATION A high-performance audio system is rarely a plug-and-play affair. Noises often plague the system even if everything is done according to conventional wisdom. Did the electrician screw up? Is the AC power dirty? Is the equipment to blame? Are the cables poorly shielded?

Bill Whitlock will talk about the forces that drive ground loops, how they contaminate audio signals, and new tools to make troubleshooting faster and easier. Among the topics will be equipment design errors that create the power-line prima Donna syndrome and other elusive problems, how manufacturers manipulate specs to deceive, how new test standards and instruments can make manufacturers honest, why exotic cables probably won't help, and what your electrician can do to reduce or eliminate problems. Invite your electrician ... he may decide that we audio folks aren't quite as crazy as he thinks!

PRESENTER Bill Whitlock has designed professional analog audio electronics since 1973 and has been president and chief engineer at Jensen Transformers since Deane Jensen's death in 1989. Prior to that, Bill worked for Quad-Eight, Laserium, and Capitol Records. His lectures and writings have helped thousands debunk the myths and unravel the mysteries of grounding and interfacing. Writings include numerous AES papers, dozens of magazine articles and white papers, as well as several chapters in Glen Ballou's "Handbook for Sound Engineers." He's been an invited lecturer at MIT and many other universities. His patents include the InGenius® balanced input circuit and the ExactPower® AC voltage regulator. He's a Fellow of the AES and a Senior Member of the IEEE and was a major contributor to AES48-2005, the standard on interconnections, grounding, and EMC practices.



MEETING SPONSORED BY
ENGINEERING HARMONICS

PLEASE POST - MEMBERS AND GUESTS WELCOME

Engineering Harmonics, Canada's largest independent AV systems designer, has an immediate opening for an AV designer with a strong technical background and a minimum of 10 years of work experience. Visit www.EngineeringHarmonics.com for more details.

CLASSIFIED AD: NEIL MUNCY

I have a significant collection of Greenlee Chassis Punches available for 50% of the 2009 Newark Electronics catalog prices, per the attached inventory list.

I also have an extensive collection of spare parts & manuals for vintage Ampex tape machines.

As well, the first third of my Technical has been inventoried (50+ titles), and a PDF list is now available to anyone interested.

Please pass this along to your colleagues. **Contact:** nmuncy@rogers.com (905) 887-1230

NEIL MUNCY'S GREENLEE INVENTORY.1E PAGE 1 11/26/09

	A	B	C	D
	SIZE (INCHES)	QTY.	NOTES	NEWARK 2009 PRICE REFERENCE (US\$) [SEE FOOTER]
1				
2	2-1/2 R	1	Ball Bearing Drive Screw	\$226.05
3	2-5/32 R	1		\$142.42
4	2 R	2		\$139.40
5	1-3/8 R	1	Ball Bearing Drive Screw	\$115.66
6	1-7/8 R	2		\$125.00
7	1-5/32 R	1		\$62.80
8	2-1/2 R	1		\$226.05
9	1 R	3		\$61.15
10	1/2 SQ	1		\$258.51
11	1-1/4 R	1	Ball Bearing Drive Screw	\$90.94
12	1-1/8 R	1		\$62.80

NEIL MUNCY'S GREENLEE INVENTORY.1E PAGE 2 11/26/09

	A	B	C	D
13	13/16 R	2		\$115.66
14	13/16 R	1	Ball Bearing Drive Screw	\$115.66
15	7/8 R	1	Ball Bearing Drive Screw	\$56.05
16	3/4 R	1		\$51.30
17	1/2 R	1		\$53.76
18	1-3/8 R	1	1" CONDUIT	\$59.62
19	1-1/4 R	1		\$90.94
20	1-1/2 R	1	1-1/4" CONDUIT	\$90.93
21	1-5/8 R	2		\$82.52
22	3/8	3	SPARE DRIVE SCREW	\$18.07
23			NEWARK TOTAL FOR ONE OF EACH ITEM LISTED ABOVE	\$2245.29