



Carl E. Baum

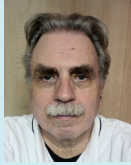
Hear Ye! Hear Ye!



W. Scott Bigelow



Leland Bowen



Joe Clark



Everett Farr



Peter Finlay



Bob Gardner



Dave Giri



Ira Kohlberg



Prashanth Kumar



Nicolas Mora



Philip Morrison



Jürgen Nitsch



Nestor Peña



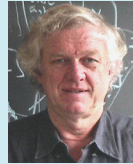
Stefan Potthast



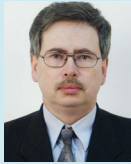
Farhad Rachidi



Francisco Roman



Fred Tesche



Sergey Tkachenko



Felix Vega



Larry West



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Notes Uploaded on July 15, 2011 to www.ece.unm.edu/summa/notes

- SSN 553** *Modifications to a Commercial Impulse Radiating Antenna (IRA) for Accurate Mono-static Impulse Radar Application*, **D. V. Giri**, February 2011
- SSN 554** *Maximizing Energy in Terahertz Pulse Radiation from a Switched Oscillator*, **Carl E. Baum and Prashanth Kumar**, July, 2010
- SSN 555** *A Standard for Characterizing Antenna Performance in the Time Domain*, **Everett G. Farr**, April 2011
- SSN 556** *Design, Realization and Experimental Test of a Coaxial Exponential Transmission Line Adaptor for a Half Impulse Radiating Antenna*, **Felix Vega, Farhad Rachidi, Nicolas Mora, Nestor Peña and Francisco Roman**, June 2011
- IN 614** *Propagation on Circulant Multiconductor Transmission Lines with Random Wire Interchanges*, **Carl E. Baum**, July 2010
- IN 615** *In-Flight versus Ground-Test Lightning Interactions in Composite Airframes Effects of External vs. Internal Inductance. An Errata to Everything Previously Published*, **Larry West**, April 2011
- IN 616** *Lightning Induced Waveforms 4 and 5A in Composite Airframes, The Inability of Copper Braid to Shield It, and A New Layered Copper Braid and High-mu Foil Shield. Interaction Note 608 Revision A*, **Larry West**, April 2011
- IN 617** *Allocating Indirect Lightning to Cables & Boxes at Program Inception Application of Ohm's Law, Kirchhoff's Laws, Faraday's Law & Scaling by Geometric, Electrical, & Spectral Parameters*, **Larry West**, April 2011
- IN 618** *Assessment of and Recommendations for RTCA/DO-160F Section 22 Lightning Induced Transient Susceptibility*, **Larry West**, April 2011
- IN 619** *Pulsed Excitations of Resonators*, **Jürgen Nitsch, Sergey Tkachenko, and Stefan Potthast**, September 2010
- IN 620** *Dynamics of Recovery of Coupled Infrastructures Following a Natural Disaster or Malicious Insult*, **Ira Kohlberg, Joe Clark and Phillip Morrison**, March 2011
- IN 621** *On the Natural Oscillation Frequencies of a Straight Wire Antenna*, **F. M. Tesche and D. V. Giri**, June 2011
- CESDN 69** *A Fully Symmetric Waveguide-Cavity Microwave Pulse Compressor*, **Carl E. Baum**, June 2010
- MN 63** *Automated and Adaptive RF Effects Testing*, **Everett G. Farr, Leland H. Bowen, W. Scott Bigelow, Robert L. Gardner, and Peter Finlay**, March 2011

Dear Members of the HPE Community,

Carl Baum has been editing and publishing these "Notes" for over four decades. This was one of his many good deeds to our technical community. We continue this tradition with one difference: There will be no hard-copy distribution of the Notes. The manuscripts that are received are reviewed, revised and uploaded to <http://www.ece.unm.edu/summa/notes>. This notice announces that 14 new publications have been uploaded.

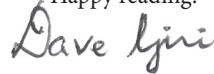
In SSN 553, Giri has reported on modifying a commercial IRA for use in mono-static impulse radar. Kumar and Baum investigate radiation of THz frequencies from switched oscillators in SSN 554. Farr describes antenna parameters in the time domain useful for pulsed antennas in SSN 555. In SSN 556, Vega et al., describe various impedance transformers to drive a 100 Ohm half-IRA from a 50 Ohm source.

CESDN 69 and IN 614 were the last couple of Notes authored by Carl Baum prior to his untimely demise. His writings are extensive in quality, quantity and variety. Larry West has stimulating ideas on various aspects of Lightning interaction to electronic equipment as described in IN 615-IN 618. Nitsch et al., look at the pulsed excitations of resonators in IN 619. In IN 620, Kohlberg has a new way of looking at critical infrastructure components and how they may recover following a malicious event.

Tesche and Giri look at the "old" problem of complex natural frequencies of a wire antenna/scatterer in IN 621, prompted by a recent paper in IEEE Transactions on AP-S that uses a variational principle approach. Finally Farr et al., describe an automated way of RF effects testing in MN 63.

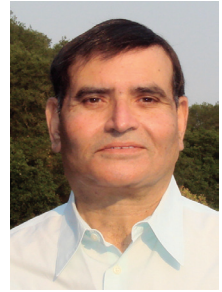
On behalf of the editorial board of the Note Series, I wish to thank the authors and reviewers of these publications for their contributions in maintaining the high-standards of the Note Series set by Carl Baum. I am also grateful to Chuck Reuben for his assistance.

Happy reading!



Dr. D. V. Giri, Chief Editor

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Manuscripts should be e-mailed to Dr. Giri (Giri@DVGiri.com) for consideration. It is the responsibility of the author(s) to get the paper cleared for public release. The Notes will be uploaded to www.ece.unm.edu/summa/notes twice-a-year, in June and December. The announcement of newly published notes will be sent out to subscribers twice a year by postcard. You can be added (at no cost) to this postcard notification mailing list by e-mailing Chuck Reuben at shawnee@ece.unm.edu. If you have received this post card by mail, you are already on our mailing list. All Notes should be cited by mentioning, Author(s), Title, Name and Number of the Note, the Date of publication and the URL from where it can be accessed. "All published Notes are approved for public release and their distribution is unlimited."