Hear Ye! Hear Ye!

Notable Authors Spring 2013

Bertrand Daout

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SUMMA FOUNDATION

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Notes Uploaded to www.ece.unm.edu/summa/notes

SDAN 40 *Random Graph Model for Determining the Survivability of Spatially Inhomogeneous Communication and Sensor Networks,* **Ira Kohlberg,** December 2012

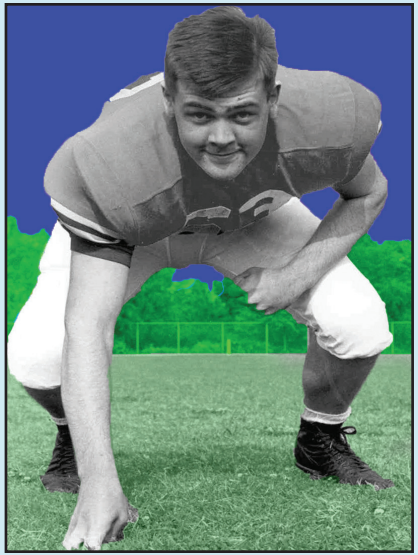
SSN 558 *Antenna Impulse Response With Arbitrary Source and Load Impedances,* **Everett G. Farr,** March 2012

SSN 559 *The Ellipticus CW Illuminator,* **William D. Prather,** October 2012

SSN 560 *A New Set of Electrodes for Coaxial, Quarter Wave, Switched Oscillators,* **Felix Vega, Farhad Rachidi, D.V. Giri,** October 2012

SSN 561 *A Method for the Analysis and Design of Coaxial Switched Oscillators Using Chain Parameters,* **Felix Vega, Farhad Rachidi, Nicolas Mora, Bertrand Daout, Nestor Peña, Francisco Roman,** December 2012

SSN 562 *A Modified Description of Early Time High-altitude Electromagnetic Pulse Waveform (E1) ,* **Yan-zhao Xie,** January 2013



"Brontosaurus" Carl Edward Baum
Circa 1962 Caltech, Pasadena, CA

Dear Members of the HPE Community,

On January 17, 2013 we uploaded six new contributions to the NOTE series located at www.ece.unm.edu/summa/notes.

In **SDAN 40, *Kohlberg*** investigates the survivability of Mobil Ad-hoc Network (MANET) system by focusing on the effect of spatial inhomogeneity of node concentration. ***Farr*** extends his earlier characterization of antenna impulse response to arbitrary source and load impedances in **SSN 558.**

In SSN 559, ***Prather*** describes the design, construction and operation of the Ellipticus Illuminator and shows some limited CW-to-pulse comparisons on several aircraft that were measured in both facilities. ***Vega, Rachidi*** and ***Giri*** present a new profile for the electrodes forming the radial transmission line of a switched oscillator (SWO) in **SSN 560**.

In **SSN 561**, ***Vega et al.***, investigate the input impedance of an antenna driven by switched oscillator (SWO).

Yan-zhao Xie presents an alternate analytical expression to the usual double exponential (DEXP) and the quotient exponential (QEXP) forms for the early time HEMP (E1) environment in **SSN 562**.

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 keeping up the high-standards of the NOTE series set by Carl Baum.

Dave Giri

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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 regularly uploaded to www.ece.unm.edu/summa/notes. 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@unm.edu . 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."***

Potential contributors to the NOTE series can adapt their material and submit it to other journals, such as the IEEE Transactions on Antennas and Propagation, EMC etc. and should abide by all IEEE editorial policies.