

## Publications authored by David Maxson

### Books

- *The IBOC Handbook— Understanding HD Radio Technology*, 2007, Focal Press.
- Chapter 3.4, *Managing Workplace and Environmental Hazards*, NAB Engineering Handbook, 11<sup>th</sup> Edition, 2018, Focal Press.
- Chapter 10.2, *AM Radio Performance Measurements*, NAB Engineering Handbook, 11<sup>th</sup> Edition, 2018, Focal Press.

### Articles

- *Evaluating Emissions of Your New IBOC Transmitter*, Radio World Engineering Extra, June 2005.
- *What's in a Digital Radio Standard?*, Radio World, June 8, 2005.
- *Using RF Safety Signs Properly*, Radio Guide, May 2005.
- *Posting Hazard Communications Signs at Your Radio Transmission Plant*, Radio Guide, April 2005.
- *Evaluating Emissions of Your New IBOC Transmitter, Measuring Digital Signals Requires New Methods*, Radio World, April 6, 2005.
- *The Future of Bitcasting*, Radio World (guest commentary) 2002.
- *Better Tests Needed*, Radio World, June 13, 1990.

### Technical Papers

- J. T. Bushberg et al. *IEEE Committee On Man And Radiation—COMAR Technical Information Statement: Health And Safety Issues Concerning Exposure Of The General Public To Electromagnetic Energy From 5G Wireless Communications Networks*. Health Phys. Aug. 2020
- *8th Harmonic Interference to a Cellular Service Not Caused by an FM Station: A Case Study*, Proceedings of the NAB Broadcast Engineering Conference (“Proc. NAB-BEC”), 2020.
- *Policy Implications of Two Newly Identified Modes of Interference in the FM Broadcast Band*, NAB-BEC, 2016.
- *The HD Radio EPG<sup>TM</sup> Project: An NAB FASTROAD-Sponsored Development Program*, NAB-BEC, 2010.
- *Electronic Program Guide Field Trial: How HD Radio EPG Works*, Proc. NAB-BEC, 2010.
- *The National Radio Systems Committee IBOC RF Mask Measurements Guideline – NRSC G201*, Proc. NAB-BEC, 2009.
- *A Tractable Approach to Defining and Measuring IBOC Signals against the RF Masks*, By David Maxson, et al, September 2008, as Annex 1, NRSC G-201
- *The Role of the Detector in Spectrum Analyzer Measurement of Hybrid Digital Signals*, Proc. NAB-BEC, 2008.
- *The 1996 Telecom Act: A Decade Later*, Massachusetts Assoc. of Planning Directors, Inc. 2007 Annual Conference.
- *Interference Potential of Hybrid Digital Transmission: An IBOC Occupied Bandwidth Case Study*, Proc. NAB-BEC, 2004.
- *Integrating ANSI-Compliant RF Signs Into Corporate RF Safety Programs*, Proc. NAB-BEC 2004.

- *Final Report on a Survey of the Radio Frequency Energy (RFE) Field Emissions from the Cape Cod Air Force Station PAVE PAWS Radar Facility*, PAVE PAWS Public Health Steering Group, 2004.
- *Interference Potential of Hybrid Digital Transmission: An IBOC Occupied Bandwidth Case Study*, Proc. NAB-BEC, 2004.
- *Applying the Principles of Data Communications to the Development of an Open and Universal IBOC Data Protocol*, Proc. NAB-BEC, 2003.
- *Lessons from DTV Datacasting as they apply to Digital Radio Deployment Strategy*, Proc. NAB-BEC 2002.
- *How Data Transmitted Over an IBOC Station Will Be Managed: Using a Gateway to Generate Data Revenue (with Paul Signorelli, Impulse Radio)*, Proc. NAB-BEC, 2002.
- *Receiver Study Conducted for Low Power FM Proponents; Similarities and Differences with Other Studies*, Proc. NAB-BEC 2000.
- *The State of Wireless Facilities on Lower Cape Cod*, For the Cape Cod Commission, Cape Cod National Seashore, & eight towns, 2000.
- *Receiver Evaluation Project, in the Matter of Low Power FM Broadcasting*, National Lawyers' Guild, Committee on Democratic Communications, Submitted to the Federal Communications Commission, 1999.
- *On-Carrier Digital FM Technology: A New Approach for Digital Audio Broadcasting and Extra High Speed Data Transmission*, Proc. NAB-BEC, 1996.

## Presentations

- *Traincomms – the WiFi on Trains Conference*, Panelist, Implementing broadband trackside networks, London 2018, 2019
- Presentations for each Proc. NAB-BEC paper listed above, (not itemized here, for brevity)
- *Electronic Program Guide Update*, Presented at the NAB Radio Show, 2009.
- *New NRSC IBOC Mask Measurements*, Presented at the NAB Radio Show, 2009.
- *An Update on the NAB Fastroad HD Radio Electronic Program Guide Lab Test and Field Trial*, Presented at NRSC Meeting, Las Vegas, Nevada, April 2009.
- *The HD Radio™ EPG Project*, Presented at the NAB Radio Show, 2008.
- *HD Radio™ Measurements Workshop*, Presented at the NAB Radio Show, 2008.
- *Understanding the Role of Municipalities Within DAS Deployments*, Presented at Distributed Antenna Systems (DAS) Summit, American Conference Institute, Phoenix, AZ, 2008.
- *Spectrum Analyzer Uncertainties in Digital Radio Measurements*, NAB-BEC, 2008.
- *HD Facility Operations and Monitoring*, Presenter and Panelist, Building an HD Station I: From Studio to Antenna to Bank, NAB Broadcast Management Conference, 2007.
- *DAS Issues Under a Microscope*, Panelist, Distributed Antenna Systems Track, PCIA Conference, 2007, Orlando, FL.
- *Legal and Regulatory Trends Governing DAS and Alternative Site Deployments*, Panelist, DAS and the Law Supersession, PCIA Conference, 2007, Orlando, FL.
- *Digital Radio Measurement Workshop*, Presented at The NAB Radio Show, 2006.
- *IBOC Spectrum Occupancy Measurements*, Presented at NAB-BEC, 2005.
- *Considering Measurement Requirements for IBOC Radio*, Presented at IEEE Broadcast Technology Society, 2004, Washington, D.C.

- *Breaking the Sound Barrier: How to Broadcast Digital Audio on Your FM Carrier*, Presented at NAB-BEC 1996.