



# The Society of Broadcast Engineers

**Fox Valley Wisconsin SBE Chapter 80**  
**PO Box 1519**  
**Appleton, WI 54912-1519**

**April 2010**

The next meeting of Chapter 80 SBE will be at the Out of Town Club on Tuesday April 20th at **Noon**. Our program will be our NAB review by chapter members

## Chairman's Corner

Welcome to our eNewsletter! Our April meeting of Chapter 80 will be held on Tuesday, April 20 at noon at the Out O' Town Club in Kaukauna. The meeting will include a review of NAB 2010, along with Chapter elections. We have a few members of our chapter that were attending NAB this year, and plan to return in time to participate in the presentation. Bring along a friend or two and plan to join us! We are also looking for some volunteers to serve as chapter officers for 2010-2011. We plan to accept nominations for Chairman, Vice Chairman and Secretary. Steve Brown has agreed to continue as Treasurer for another year. Please contact me if you would consider serving the chapter.

Our March meeting of Chapter 80 was held on Tuesday, March 16, 2010 at noon at the Out O' Town Club in Kaukauna. A special thanks to David Driessen for presenting the program: "Installing and tuning an Inductive Output Tube." This was a very informative presentation.

As you are aware, the Newsletter is now switched over to an electronic version. We are still missing email addresses for a few of our members. We need your current email address if you wish to continue to receive our Newsletter. If you know of any member who is not receiving the new version, please send us their email address. The Newsletter will also be posted on our website, and archive copies, as well as other Chapter 80 and SBE information are available as well.



## Upcoming events:

April 10-15, 2010 – NABShow 2010, Las Vegas, NV [www.nabshow.com](http://www.nabshow.com)

Tuesday, April 20, 2010 – SBE Chapter 80 – NAB 2010 Review

Tuesday May 11<sup>th</sup> Camera Corner Technology Expo in Green Bay

Tuesday, May 18, 2010 – SBE Chapter 80 – program TBA and chapter elections

Wednesday, June 23, 2010 – WBA/SBE Summer Engineering Clinic, Chula Vista Resorts, Wisconsin Dells – Mark your calendars and plan to attend!

I look forward to seeing you on Tuesday April 20, 2010 at our AprilChapter 80 meeting in Kaukauna!

Regards,

Keith M. Kintner

**Have you considered serving Chapter 80 as an elected officer?** Chapter 80 is looking for those willing to serve as Chairman, Vice Chairman or Secretary. To give potential candidates time to think it over we will postpone the chapter elections until May. Step Up!



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The **Camera Corner Connecting Point 2010 Technology Expo** will be on Tuesday, May 11, 2010 at the KI Convention Center in Downtown Green Bay. The theme this year is: "Wild Wild West of Technology". The event runs from 8:00 a.m. to 3:30 p.m., and we are invited. The event is free, but pre-registration is required. To register, visit: [www.cccp.com](http://www.cccp.com), or contact Mary Phillips at 920-438-0343. There will be over 100 technology vendors and 16 informational seminars (no pre-registration for seminars is needed). For full descriptions of all seminars available, visit the website at: [www.cccp.com](http://www.cccp.com)

- Remote operations (where news personnel can find problems such as on rooftops)
  - The unique issues at AM stations
  - RF hazard protection equipment - you may not need it but your contractors probably will
  - Signs - what they mean and what you need
- (sbe.org)  
[More Information](#)

**SBE RF Safety Course Now Available On-Demand**

This 3-hour course on RF safety, taught by [Richard Strickland](#), is now available online anytime. Participants will get an overview of RF radiation issues and practices for broadcasters.

Subjects include:

- Biological effects of RF radiation and the distinct differences between RF radiation and ionizing radiation
- FCC and OSHA regulations - what they are and what you need to do to comply
- Workplace hazards
- Transmitter sites
- SNG and ENG trucks

**Have you ever eaten a transmitter? Some parts are edible.** Seeking a way to confirm that patients have taken their medication, [University of Florida engineering](#) researchers have added a tiny microchip and digestible antenna to a standard pill capsule. The



prototype is intended to pave the way for mass-produced pills that, when ingested, automatically alert doctors, loved ones or scientists working with patients in clinical drug trials. When a patient takes the pill, it communicates with the second main element of the system: a small electronic device carried or worn by the patient – for now, a stand-alone device, but in the future perhaps built into a watch or cell phone. The device then signals a cell phone or laptop that the pill has been ingested, in turn informing doctors or family members. (UFL news) <http://news.ufl.edu/2010/03/31/antenna-pill-2/>



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**CHAPTER 80 ELECTED AND APPOINTED OFFICERS 2009-2010**

Chairman	Keith Kintner	UWO	920-424-7357	kintner@uwosh.edu
Vice Chairman	Evan Stanek	Woodward Communications	920-831-5682	estanek@wcinet.com
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Program Chairman	Bill Hubbard	UW Green Bay	920-465-2510	hubbardw@uwgb.edu
Membership Chairman	Al Kilgore	WRVM	920-842-2839	akilgore@wrvm.org
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Frequency Coord. > 1 GHz	Joe Kamenick	KAMENTECH, LLC	715-359-7088	jkamenick@peoplepc.com
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Chapter 80 Webmaster	Jim Jensen	Retired	920-850-2633	jim@bjensen.net
EAS Coordinator	Steve Konopka	WPNE TV/FM	920-336-3541	skonopka@ecb.org
Past Chairman	Mark Friedman	WPNE TV/FM	920-336-3541	titletownfans@yahoo.com
Board of Dirs/SBE Liaison	Keith Kintner	UWO	920-424-7357	kintner@uwosh.edu

**Broadcast Related Complaints**

	July	August	September	Quarter Totals
<b>Radio and Television Broadcasting</b>				
Carrier Marketing & Advertising	57	58	63	178
Programming - General Criticism	100	280	187	567
Other Programming Issues	295	360	324	979
Programming - Indecency/Obscenity**	511	701	615	1,827
Digital Television Issues	1,192	919	1,038	3,149
<i>Totals</i>	2,155	2,318	2,227	6,700

The Commission has released its report on the top subject areas for inquiries and complaints processed by the Consumer & Governmental Affairs Bureau (CGB) during the third quarter of calendar year 2009. (fcc.gov)

The SBE Chapter 80 Newsletter is published monthly. Members are welcome to contribute articles or ideas. Please have your submissions in by the 4<sup>th</sup> of the month to Dave Driessen or Bill Tessman

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## **FCC announces Broadband Agenda.**

The 2010 Broadband Action Agenda focuses on four key goals:

### **Promote World-Leading Mobile Broadband Infrastructure and Innovation**

- Seek to make an additional 500 megahertz (MHz) of spectrum available for mobile broadband within the next ten years.
- Increase opportunities for unlicensed devices and innovative spectrum access models.
- Expand incentives and mechanisms to reallocate or repurpose spectrum to higher-valued uses.
- Improve the transparency of spectrum allocation and utilization.

### **Accelerate Universal Broadband Access and Adoption, and Advance National Purposes Such as Education and Health Care**

- Carry out a once-in-a-generation transformation of the Universal Service Fund over the next ten years to support broadband service. This will be achieved by converting existing subsidy mechanisms over time from “POTS” (plain old telephone service) to broadband, without increasing the size of the fund over the current baseline projection.
- Upgrade the E-rate program, which has successfully connected public libraries and K-12 classrooms, to benefit students and others across the country by making broadband more accessible.
- Reform and upgrade the Rural Health Care Program to connect more public health facilities to high-speed Internet facilities and to foster telemedicine applications and services. Create a Health Care Infrastructure Fund to support deployment of dedicated health care networks to underserved areas.
- Create a Connect America Fund to extend broadband service to unserved areas of the nation and to ensure affordable broadband service in high-cost areas where support is necessary.

- Create a Mobility Fund to bring all states to a baseline level of “3G” (or better) wireless coverage.

### **Foster Competition and Maximize Consumer Benefits Across the Broadband Ecosystem**

- Enhance broadband and marketplace choices for small businesses and mobile providers by establishing consistent policy frameworks for special access and wholesale wireline competition.
- Improve consumer disclosures and FCC data collection to better monitor and promote broadband competition.
- Fulfill mandate from Congress to ensure that video navigation devices, such as smart video devices, are available to consumers in the marketplace, spurring innovation in home video devices and driving increased broadband adoption and utilization.

### **Advance Robust and Secure Public Safety Communications Networks**

- Facilitate the creation of a nationwide interoperable public safety wireless broadband network.
- Promote cybersecurity and protect critical communications infrastructure.
- Aid the transition to next-generation 911 and alerting systems.

For specific details, please see the 2010 Broadband Action Agenda at

<http://www.broadband.gov/plan/broadband-action-agenda.html> and an implementation schedule at <http://www.broadband.gov/plan/chart-of-key-broadband-action-agenda-items.pdf>.

(FCC.gov)

*And the unwritten part for the agenda: To raise billions for the government-- Ed.*

**Public Safety and Homeland Security Bureau Seeks Informal Comment** Regarding Revisions to the FCC's Part 11 Rules Governing the Emergency Alert System Pending Adoption of the Common Alerting Protocol by the Federal Emergency Management Agency.

The Federal Communication Commission (Commission), in its *Emergency Alert System (EAS) Second Report and Order and Further Notice of Proposed Rulemaking (Second Report and Order)*, mandated that all EAS Participants must accept CAP-based EAS alerts 180 days after the date on which FEMA publishes the applicable technical standards for its adoption of CAP as the basis for FEMA generated alerts. On July 30, 2008, FEMA announced its intention to adopt a version of CAP, and more recently announced that this adoption may occur as early as the third quarter of 2010.<sup>4</sup> Such action would trigger the Commission's 180 day requirement.

The Commission's EAS rules, 47 C.F.R. Part 11, were not written to accommodate a CAP-based EAS and will likely require significant revision or replacement once CAP is adopted and implemented, even if CAP-formatted messages continue to be utilized in connection with the alert transmission architectures of the current or "legacy" EAS. In advance of any rulemaking that may need to be conducted by the Commission once FEMA announces its adoption of standards for CAP, the Public Safety and Homeland Security Bureau (PSHSB) seeks informal comment regarding what, if any, Part 11 changes might be necessitated by the introduction of CAP. We ask commenters to identify, with specificity, those rules that need to be modified or deleted, and to suggest new rules for Part 11 – or a new rules framework to replace Part 11 rules. Accordingly, commenters should feel free to address the entirety of Part 11 rules in this regard. For example, commenters may address rules for a CAP-based EAS system

architecture, equipment requirements, organization, operations, testing, and access for people with disabilities and non-English speakers. We also ask commenters to consider the degree to which the Commission can implement flexibility into any new rules adopted for Part 11, such that future versions of CAP can be accommodated without further rule changes.

Further, FEMA's adoption of CAP anticipates FEMA's deployment of its Integrated Public Alert and Warning System (IPAWS), which will combine new and innovative technologies and distribution systems with greater redundancy and resiliency for the delivery of emergency alerts. In its *EAS Second Report and Order*, the FCC requires EAS Participants to configure their networks to receive CAPformatted alerts delivered via any new delivery systems, whether wireline, internet, satellite, or other within 180 days after the date that FEMA announces the technical standards for the Next Generation EAS. However, the Commission's rules presently also do not address such alert distribution methods.

Accordingly, we also take this opportunity to ask commenters to identify specific rule changes or additions that they foresee could advance or facilitate introduction of a CAP-based Next Generation EAS architecture. In this regard, we seek comment on the extent to which states already are adopting CAP based systems for distribution of state and local EAS alerts, and the extent to which any revisions to Part 11 can be adopted in manner consistent with those systems. Again, we urge commenters to consider the degree to which the Commission can and should implement flexibility into its new rules, in order to accommodate future changes to EAS delivery systems without necessitating repeated revisions to Part 11.

(fcc.gov)

**The 2010 WBA-SBE Summer Engineering Workshop is set for June 23rd at the Chula Vista Resort in Wisconsin Dells.**

The morning sessions will cover a wide range of IP topics. We will investigate communicating with, controlling and monitoring your transmitter site from anywhere in an IP world. Then we'll build on last year's popular networking security session. This year we'll investigate elevated IP security risks both inside and outside your IP network.

**Morning Session Speakers:**

- 8:00am: Registration and Continental Breakfast
- 8:40am: Welcome and Opening Remarks
- 8:45am: Tony Peterle, Technical Support Manager, WorldCast Systems Inc.
- 9:30am: Steve Dinkel, Director of North American Sales, Burk

**Technology**

- 10:15am: Break
- 10:30am: David Kieper, Manager of Network and Infrastructure Services, UW-Green Bay
- 11:15am: Peter Kretche, Senior Network Systems Administrator, UWGreen Bay
- 12:00pm: Lunch

After Lunch we will delve into the evolution of CAP and Next Generation EAS, in particular to the State of Wisconsin. Our State Emergency Communications Committee has been working on CAP distribution in our State and its time to get you involved in that process. In addition we will hear from EAS equipment manufacturers on their philosophy of incorporating CAP into our EAS systems. There will also be Next Generation EAS equipment demonstrations to help you determine how your station will get there.

**Afternoon Session Speakers:**

- 1:00pm: Gary Timm, Broadcast Chair, Wisconsin EAS Committee
- 1:45pm: Harold Price, President, SAGE Alerting Systems
- 2:30pm: Break
- 2:45pm: Jim Gorman, Owner, Gorman Redlich
- 3:30pm: Adam Jones, Applications Engineer, Trilithic
- 4:15pm: Jim Heminway, VP and GM of Monroe Electronics (DASDEC)
- 5:00pm: Exhibits and Reception

Contact the WBA at 800-236-1922 for registration and Summer Conference details.

**Web site of the month.** Visit the **Wisconsin Broadcasting Museum** at <http://www.wisconsinbroadcastingmuseum.org/> operated by the Wisconsin Broadcasters Association. All about the history of broadcasting in Wisconsin and the people who made it great.

**Broadcasting Timeline**

**Overview**  
 The Wisconsin Museum of Broadcasting is proud to present the following illustrated timelines of significant events in broadcasting history:  
 - Major events in Wisconsin broadcasting  
 - The history of television broadcasting  
 - The history of radio broadcasting  
 - Regulatory milestones in broadcasting

Together, these remarkable timelines trace the history of broadcasting, including the development of new technology, sweeping regulatory changes, the Golden Ages of radio and television – and how Wisconsin stations shaped the history of an industry.  
 Click Here for the Sources

**Wisconsin Radio Additions 1925**  
 WBBR, Dells, licensed in March to the Northstre Fathers, who begin a long radio and television broadcasting presence in Green Bay and northern Wisconsin.

**Videos**  
 Major Events in Broadcasting  
 Major Events in Wisconsin Broadcasting  
 Major Events in Television  
 Major Events in Radio  
 Regulatory Actions in U.S.

Title: Major Events in Wisconsin Broadcasting, Description: Was Wisconsin's first radio station at 6:00 P.M.

**Broadcasters ATTC**

**Wisconsin Museum of Broadcasting**

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	Bob Sherwood 10:65		Tom Snyder 11:47
	Lynn Sprangers 14:55		Joseph Staudacher 12:38
	Hank Stoddard 11:13		Bob Uecker 10:91

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## **Certification News Summary from SBE National**

Despite this past years recession, new certifications and recertification have held their ground. This shows that the value of certification is strong and not an expendable item when tough money choices need to be made. The National Certification Committee has started looking at updating the CertPreview sample test software. You will be able to download this new version from the SBE website. They are expecting this new version to debut at NAB2010. They also intend to debut a "SBE Certified" logo at Las Vegas. Guidelines for its use will be available on the SBE website before the debut.

New Certifications are up 32 compared to this time last year to a total of 464. Recertifications are up 5 compared to this time last year to a total of 290. There were also 48 new SBE members from certifications. This past year the Certification Committee did a full review of the question database to rewrite questions to replace the outdated questions. The annual SBE membership drive, "We Make It Happen" began March 1<sup>st</sup> and runs through May 31<sup>st</sup>, 2010. You can get more information on the rules and prizes in the February issue of **Signal**.

If you are planning to attend NAB, don't forget to stop by the SBE booth in the South Hall, 2<sup>nd</sup> floor concourse, Lobby Booth 29. The South Hall is the location for the NAB Engineering Conference. Stop by the booth and say hello to some of the SBE staff. The SBE Membership Meeting is Tuesday, April 13<sup>th</sup> and will begin at 5PM. Check for the meeting room in the South Hall. All SBE members are encouraged to attend the meeting.

## **2010 Tornado and Severe Weather Awareness Week**

April 19-23, 2010

Governor Doyle has proclaimed April 19-23, 2010 as Tornado and Severe Weather Awareness Week in Wisconsin. On April 22, 2010, a statewide tornado drill is planned. The National Weather Service will issue mock tornado watches and warnings. If actual severe weather occurs anywhere in the state on April 22, the tornado drill will be postponed until Friday, April 23 with the watch/warnings issued at the same time. For more information - [click here](#) **Updated!**

For a detailed schedule, of the mock watches/warnings, go to: [2010 Tornado Drill Schedule](#)

<http://emergencymanagement.wi.gov/>



## WISCONSIN PUBLIC RADIO'S 2010 EAS SCHEDULE

DAY/DATE	TIME	COMMENT.....
W 6 Jan	0850	Routine Monthly Test initiated by NOAA
R 14 Jan	1259	
M 18 Jan	1459	
T 26 Jan	1059	
W 3 Feb	2350	Routine Monthly Test initiated by WEM
R 11 Feb	1459	
M 15 Feb	1059	
T 23 Feb	1259	
W 3 Mar	0850	Routine Monthly Test initiated by NOAA
R 11 Mar	1059	
M 15 Mar	1459	
T 23 Mar	1259	
W 31 Mar	1059	
W 7 Apr	2350	Routine Monthly Test initiated by ECB
R 15 Apr	1059	
M 19 Apr	1459	
T 27 Apr	1259	
W 5 May	0850	Routine Monthly Test initiated by NOAA
R 13 May	1059	
M 17 May	1259	
T 25 May	1459	
W 2 Jun	2350	Routine Monthly Test initiated by WEM
R 10 Jun	1459	
M 14 Jun	1259	
T 22 Jun	1059	
W 30 Jun	1459	