



JULY 2011

PO Box 3561 El Paso, TX 79923-3561 www.kint98.com

NEWS

From Wikipedia, the free encyclopedia

BROADCAST ENGINEERING is the field of [electrical engineering](#), and now to some extent [computer engineering](#) and [information technology](#), which deals with [radio](#) and [television broadcasting](#). [Audio engineering](#) and [RF engineering](#) are also essential parts of broadcast engineering, being their own [subsets](#) of electrical engineering.

Broadcast engineering involves both the [studio](#) end and the [transmitter](#) end (the entire [airchain](#)), as well as [remote broadcasts](#). Every [station](#) has a broadcast [engineer](#), though one may now serve an entire station group in a city, or be a [contract](#) engineer who essentially [freelances](#) his services to several stations (often in small [media markets](#)) as needed.

DUTIES

Modern duties of a broadcast engineer include maintaining [broadcast automation](#) systems for the studio and [automatic transmission systems](#) for the transmitter [plant](#). There are also important duties regarding [radio towers](#), which must be [maintained](#) with proper [lighting](#) and [painting](#). Occasionally a station's engineer must deal with [complaints](#) of [RF interference](#), particularly after a station has made changes to its transmission facilities.

TITLES

Broadcast engineers may have varying titles depending on their level of [expertise](#) and field specialty. Some widely used titles include:

Broadcast [design engineer](#)
Broadcast [systems engineer](#)
Broadcast [IT](#) engineer
Broadcast [IT systems engineer](#)
Broadcast [network engineer](#)

Broadcast [maintenance engineer](#)
[Video](#) broadcast engineer
[TV studio](#) broadcast engineer
[Outside broadcast](#) engineer
[Remote broadcast](#) engineer

QUALIFICATIONS

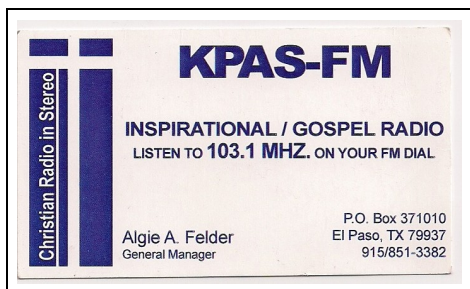
Broadcast engineers may need to possess some or all of the following [degrees](#), depending on the broadcast technical environment. If one of the formal qualifications is not present, a related degree or equivalent professional experience is desirable.

OUR SUSTAINING MEMBERS:

KTSM-TV
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KLAQ-FM, KISS-FM & KROD-AM
KPAS-FM-
ALGIE A. FELDER CSBE
KINT98.COM
INTERNET RADIO NETWORK
BURST COMMUNICATIONS INC.- THOM JOHNSON
GIESLER BROADCASTING SUPPLY INC.
DAN GEISLER
ENTRAVISION COMMUNICATIONS
PANASONIC-JIM McGowan
SCMS, INC.-
TNT BROADCAST AND TELECOMMUNICATIONS CONTRACTORS, INC.- PAUL TERRY
KSCE-TV
RF Specialties of Texas Dan Sessler.
KCOS-TV
TIME WARNER CABLE
KELP-AM
ARNOLD McClatchy
HUNTLEIGH TECHNOLOGY GROUP



Degree in [electrical engineering](#)
 Degree in [electronic engineering](#)
 Degree in [telecommunications engineering](#)
 Degree in [computer engineering](#)
 Degree in [management information system](#)
 Degree in [broadcast technology](#)



KNOWLEDGE

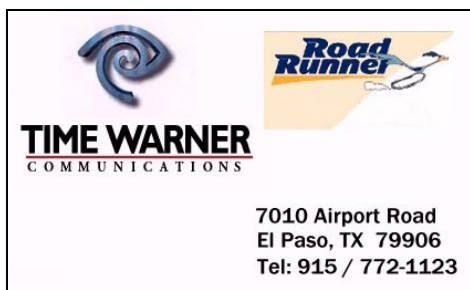
Broadcast engineers are generally required to have knowledge in the following areas, from conventional video broadcast systems to modern Information Technology:

- **CONVENTIONAL BROADCAST**
 Audio/Video [instrumentation measurement](#)
[Baseband video](#) – standard / [hi-def](#)
 Broadcast studio [acoustics](#)
[Television studios](#) - broadcast [video cameras](#) and [camera lenses](#)
[Production switchers](#) (video mixer)
[Audio mixer](#)



BROADCAST IT

- [Video compression](#) - [DV25](#), [MPEG](#), [DVB](#) or [ATSC](#) (or [ISBD](#))
- Digital server [playout](#) technologies. - [VDCP](#), Louth, [Harris](#), control protocols
- [Broadcast automation](#).
- [Disk storage](#) - [RAID/NAS/SAN](#) technologies
- Archives - [Tape archives](#) or [grid storage](#) technologies
- [Computer networking](#)
- [Operating systems](#) - [Microsoft Windows/ Mac OS/ Linux/ RTOS](#)
- [Post production](#) - [video capture](#) and [non-linear editing systems](#) (NLEs).



RF

- RF [satellite uplinking](#) - High-powered amplifiers (HPA)

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SBE CHAPTER 38 OFFICERS

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Membership Committee:
 TBD
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Frequency Coord. Committee:
 Warren Reeves
 Owen Smith

Scholarship Committee: Rick Vilardell

Web Site Committee: Norbert Miles

Sustaining Membership: TBD

Program Chairman: Enrique Lopez

Newsletter: Antonio Castro

EAS Chairman: Ron Haney

Executive Committee:
 Antonio Castro
 Enrique Lopez
 Marvin Haney

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David Candalaria
General Manager

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Chase Bank Tower - Downtown
201 E. Main, Suite 100
El Paso, TX 79901

EL PASO, TX CHAPTER 38 MEETING MINUTE
DATE **06/14/2011** LOCATION: **Rancher's Grill**

MEETING CALLED TO ORDER: 12:40 PM, BY ANTONIO CASTRO, THERE WERE 8 MEMBERS IN ATTENDANCE.

REPORT OF THE SECRETARY: MINUTES ACCEPTED AS POSTED IN THE NEWSLETTER BY GLENN LEFFLER

REPORT OF THE TREASURER: CURRENT BALANCE OF \$ 7,655.89, . ACCEPTED BY NORBERT MILES.

REPORT OF THE CERTIFICATION COMMITTEE: GLENN LEFFLER HAVING PROBLEMS WITH HIS RE-CERTIFICATION. WE WILL CALL MEGAN CLAPPE

REPORT OF THE MEMBERSHIP COMMITTEE: ATTENDING MEMBERS WILL INVITE AT LEAST ONE PROSPECT

REPORT OF THE FREQUENCY COORDINATOR COMMITTEE: NO REPORT

REPORT OF THE SCHOLARSHIP COMMITTEE: VOTED UNANIMOUSLY FOR ALEXANDER BARRON AS THE RECIPIENT FOR THIS YEAR.. NEXT MONTH WILL PRESENT THE CHECK.

REPORT OF THE WEB SITE COMMITTEE : 551 HITS, NOW WE HAVE A CHAT ROOM. WILL REMOVE DEAD LINE FOR SCHOLARSHIP.

REPORT OF THE EAS CHAIRMAN : NO RESPONSE FROM THE CHAIRMAN RON HANEY.

REPORT OF THE PROGRAM COMMITTEE: NO PRESENTATION THIS TIME.. RF SPECIALTIES OF TEXAS FOR JULY.

UNFINISHED BUSINESS: PAUL TERRY HAS NO REPORT

NEW BUSINESS OR ANY ITEMS FOR THE CHAPTER INTEREST: NONE

NEXT MEETING DATE AND LOCATION: JULY 12, 2011, LOCATION : CLEARCHANNEL RADIO STUDIO. @ 6:30PM

MEETING ADJOURNED: 1:08 PM .

NOTES FROM THE EDITOR:

Enjoy the article pulled from WIKIPEDIA, it is of relevant information for our group 2010 . You can always check by your self the content

NOTES FROM THE SECRETARY:

It WAS sent via regular mail a very friendly remainder to those members and sustaining members that had not covered the 2011 dues. Watch for the mail !! ONLY 7 MEMBERS !!

JULY PROGRAM

Our July meeting will be held at the CLEARCHANNEL RADIO STUDIO where we are going to present the scholarship check to the student **ALEXANDER BARRON.**

And for the MAIN EVENT, we are proud to present:

RF Specialties of Texas, own by our long time friend Dan Sessler. They represent among many other equipment: Nautel AM & FM transmitters and Linear TV transmitters. Do not miss this opportunity to say hello and check out the presentation

The invitation is for Tuesday the 12 of July, **2011** at 6:30 PM @ **CLEARCHANNEL RADIO STUDIO**
4045 n. Mesa, El Paso, Texas
We want to start early in order to cover all aspects of the meeting, so please be there on time.

PIZZA and drinks will be offered !!



RF [satellite uplinking](#) – High-powered amplifiers (HPA)

RF [communications satellite downlinking](#) – Band detection, [carrier](#) detection and [IRD](#) tuning, etc.

RF transmitter maintenance - IOT UHF transmitters, solid state VHF transmitters, antennas, transmission line, high power filters, digital modulators

- **HEALTH AND SAFETY**

[Occupational safety and health](#)

[Fire suppression](#) systems like [FM 200](#).

Basic [structural engineering](#)

[RF](#) hazard mitigation

Above mentioned requirements vary from station to station

DIGITAL ENGINEERING

The conversion to [digital](#) broadcasting means broadcast engineers must now be well-versed in [digital television](#) and [digital radio](#), in addition to [analogue](#) principles. New equipment from the transmitter to the [radio antenna](#) to the receiver may be encountered by engineers new to the field. Furthermore, modern techniques place a greater demand on an engineer's expertise, such as [sharing broadcast towers](#) or [radio antennas](#) among different stations ([diplexing](#)).

[Digital audio](#) and [digital video](#) have revolutionized broadcast engineering in many respects.^[4] Broadcast [studios](#) and [control rooms](#) are now already digital in large part, using [non-linear editing](#) and [digital signal processing](#) for what used to take a great deal of time or money, if it was even possible at all. [Mixing consoles](#) for both [audio](#) and [video](#) are continuing to become more digital in the 2000s, as is the [computer storage](#) used to keep digital media [libraries](#). [Effects processing](#) and [TV graphics](#) can now be realized much more easily and professionally as well.

Other devices used in broadcast engineering are [telephone hybrids](#), [broadcast delays](#), and [dead air alarms](#)

ENGINEERING SERVICES

Broadcast stations often call upon outside engineering services for certain needs. For example, because [structural engineering](#) is generally not a direct part of broadcast engineering, [tower](#) companies usually [design](#) broadcast towers.

Other companies specialize in both broadcast engineering and [broadcast law](#), which are both essential when making an application to a national [broadcasting authority](#) for a [construction permit](#) or [broadcast license](#). This is especially critical in [North America](#), where stations bear the entire burden of proving that their proposed facilities will not cause interference and are the best use of the [radio spectrum](#). Such companies now have special [software](#) that can map projected [radio propagation](#) and [terrain shielding](#), as well as [lawyers](#) that will [defend](#) the applications before the U.S. [Federal Communications Commission](#), [Canadian Radio-television and Telecommunications Commission](#) (CRTC), or the equivalent authorities in some other countries.

ORGANIZATIONS

In the [United States](#), many broadcast engineers belong to the [Society of Broadcast Engineers](#) (SBE). Some may also belong to the [Society of Motion Picture and Television Engineers](#) (SMPTE),¹ or to organizations of related fields, such as the [Audio Engineering Society](#) or [Institute of Electrical and Electronics Engineers](#) (IEEE)) - [IEEE Broadcast Technology Society](#) (BTS).

For [public radio](#), the [Association of Public Radio Engineers](#) was created in late May 2006.