

# NEWS

## 5G TV trials

### 5G TV trials pass important milestones

And, Kathrein completed an antenna for test operation at BR's transmitter site in Ismaning near Munich.

The new 5G network standard is a key technology for the future when vehicles become highly automated and devices are networked with each other in the Internet of Things. 5G also offers great potential for efficient distribution of media content.

The introduction of 5G will open up a worldwide market with millions of smartphones and tablets acting as potential TV receivers able to combine live TV services, media libraries, social networks and many other media services.

LTE Broadcast, also known as FeMBMS (Further evolved Multimedia Broadcast Multicast Service), was specified in 3GPP Release 14 in June 2017.

It defines new options for broadcasting to LTE-enabled mobile user equipment such as smartphones and tablets.

For the first time, the upgraded standard allows high-power high-tower (HPHT) applications in downlink only mode while utilising the full signal bandwidth for multicast/broadcast applications.

Moreover, 3GPP Release 14 defines an extended cyclic prefix (guard interval) and modes to enable operation without SIM cards, which is necessary for broadcast applications.

The R&S THU9evo high-power transmitter with a transmission power of 5kW (100kW ERP) and the specially developed Kathrein antenna are part of the LTE broadcast test transmission. The Rohde & Schwarz FeMBMS transmission addresses broadcast applications for

video and IP data in HPHT topologies with bandwidths of 5MHz and 10MHz. The transmitter receives the reference and configuration data via 3GPP-conform protocols from an LTE EPC (Evolved Packet Core). The research project uses the Rohde & Schwarz broadcast service and control centre R&S BSCC that contains all necessary EPC functions. The broadcast services are provided by the BR and transferred to the R&S BSCC via an R&S AVHE100 headend. The transmitters in Ismaning and on the Wendelstein form a Single Frequency Network (SFN), which is to enable mobile and portable reception in the greater Munich area as well as on the main traffic routes between Munich and Salzburg.

Communication technology specialist Kathrein developed a special antenna for the transmission of diversity signals for the transmitter station in Ismaning.

Twelve innovative UHF antenna fields were installed at a height of 200 meters. The project also included the installation of a 370-metre long, arm-thick HF transmission cable.

Another Rohde & Schwarz high-power transmitter with 7 kW output power for 100 kW ERP is to be connected to the antenna at the end of January. The test broadcasting network will then be prepared for the measurements.

networks. The project is supported by Telefónica Germany and Bayerischer Rundfunk, the Bavarian state broadcaster, who is providing two HPHT sites near Munich for this groundbreaking field trial.

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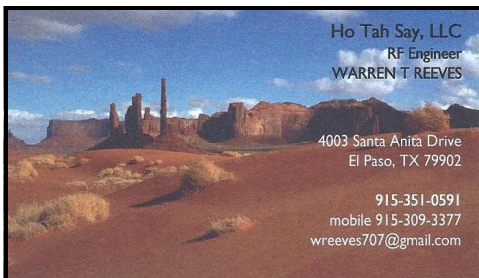
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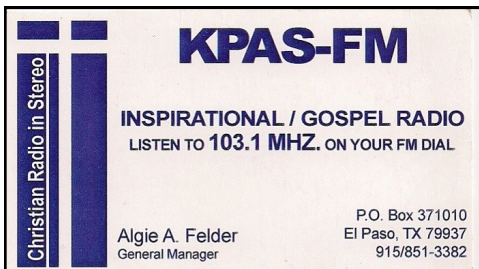
Ho TahCurrently, a major European 5G field trial is being established in Germany as part of the Bavarian



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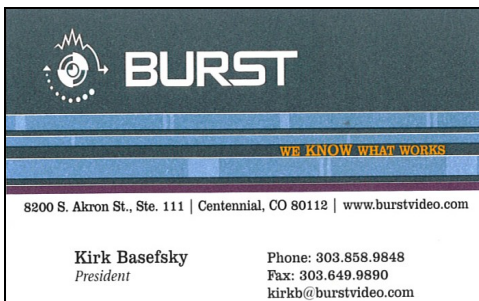
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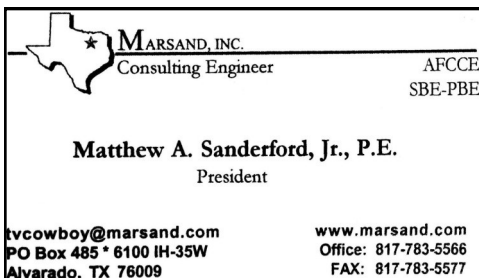


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## From SBE national:

1. SBE will present a half-day Ennes program as part of the NAB Broadcast Engineering and IT Conference in Las Vegas, on Saturday morning, April 6. Register through the NAB. An NAB conference registration is required. The week of January 7, the SBE anticipates announcing another educational opportunity for this who plan to travel to Las Vegas in April.

2. SBE will present Module 4 of the SBE ATSC 3.0 webinar series: MPEG Media Transport Standard and its Use in ATSC 3.0, on Wednesday, January 30 at 2 pm, ET. Register at the SBE website, Education/Webinars page. The webinar is free for SBE MemberPlus members.

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EL PASO, TX      SBE CHAPTER 38      MEETING MINUTE

DATE **12/11/2018**      LOCATION: **KFOX STUDIOS**

**MEETING CALLED TO ORDER: 13:10 PM, BY ANTONIO CASTRO.**  
**THERE WERE 18 ATTENDANTS.**

**REPORT OF THE SECRETARY:** MINUTES IN THE DECEMBER NEWS-LETTER. ACCEPTED BY MARIO JIMENEZ, SECONDED BY NORBERT MILES.

**REPORT OF THE TREASURER:** \$ 4,081.93 IN THE BANK. ACCEPTED BY ELIAS VENTANILLA, SECONDED BY DAVID HALPERIN.

**REPORT OF THE CERTIFICATION COMMITTEE:** NO REPORT.

**REPORT OF THE MEMBERSHIP COMMITTEE:** A LOCAL NETWORK SYSTEM IS A PROSPECT.

**REPORT OF THE FREQUENCY COORDINATOR COMMITTEE:** NO REPORT

**REPORT OF THE SCHOLARSHIP COMMITTEE:** NO REPORT.

**REPORT OF THE WEBSITE COMMITTEE:** 2422 HIST LAST TIME(2 MONTHS), NOW 2446= 24.,

**REPORT OF THE EAS CHAIRMAN:** MONTHLY TEST NM AND TX WERE FINE,

**REPORT OF THE PROGRAM COMMITTEE.:** GBS AND RF TECHNOLOGIES OF TEXAS TO PRESENT IN JANUARY 24, 2019 (PART OF THE TOUR)

**UNFINISHED BUSINESS:** WYLER TRAM UNOPERABLE DUE TO AGED. ONLY FOR EQUIPMENT..

**NEW BUSINESS OR ANY ITEMS FOR THE CHAPTER INTEREST:**  
HOLIDAY PARTY AT WARREN REEVES PLACE AND SPONSORED BY DAVID GRICE. WAS A SUCCESS. 2019 ENNES WORKSHOP SET FOR MAY 31, 2019.

**NEXT MEETING DATE AND LOCATION:** JANUARY 24, 2019. PLACE: RIO CHINA BUFFET. TIME: 11:30 AM.

**MEETING ADJOURNED:** AT 13:24 PM.

**INVOICES FOR 2019 MEMBERSHIPS WILL BE READY FOR DELIVER THIS WEEK. KEEP AN EYE !!**



# JANUARY PROGRAM

FOR THE MONTH OF DECEMBER, WE HAD A GREAT PRESENTATION IN A FORM OF TELE-CONFERENCE FROM **BOB ORBAN** INTRODUCING SOME PRODUCTS, WITH Q&A AT THE KFOX CONFERENCE ROOM WITH DOUBLE SCREEN AND PERFECT SOUND. THE SETTING WAS GREAT.

AFTER SIGNING OFF WITH BOB ORBAN, WE HAD A BRIEF CHAPTER MEETING. CATERING SPONSORED BY ORBAN AND DRINKS ALSO PROVIDED BY KFOX.

DAN SESLER AND DAN GIESLER IN A TOUR INTRODUCING JEFF WILSON, NEW WESTERN SALES MANAGER FOR NAUTEL (20 MINUTE PRESENTATION). THEY WILL SPONSOR THE LUNCH

**WHEN:**  
THURSDAY JANUARY 24, 2019.

**PLACE:**  
RIO CHINA BUFFET, SUNLAND PARK

**TIME:**  
11:30 AM

