The BACCH-SP

"I heard a spatial presentation that was indistinguishable from real life." Robert Harley, Editor, The Absolute Sound

"The reverberation on the recordings, was now a stable, solid halo around the performers, just as it is in reality." John Atkinson, Editor, Stereophile

Most Significant Product Introduction at CES 2015
"This is no hat trick; it's true 3-D audio that can literally put a whisper in your ear."
Alan Taffel, The Absolute Sound

"One of the biggest and most mind-boggling moments of CES 2015.

The 3D-ness of the presentation was absolutely startling.
... [it] literally dissolved both the speakers and room..."

Michael Lavorgna, Editor, AudioStream

"When you experience the full effect of Dr. Choueiri's engineering, you will see the future and know that it is now." Herb Reichert, The Audio Buzz

"Sound quality did not suffer one iota: this was all about reproducing an authentic soundfield, which it achieved in spades." Ken Kessler, Soundstage Hi-Fi

"Better sounding than stereo, better than 5.1, better than 10.2!" Bob Katz, Audio Mastering Engineer



... a thrillingly immersive, you-are-there experience

Stereophony purified ...



... finally, simply and truly 3D

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BACCH™ Stereo Purifier

The BACCH® Stereo Purifier (BACCH-SP) is a state-of-the-art, high-definition, digital audio processor that yields highly realistic 3D sound imaging from a pair of stereo loudspeakers.

At the heart of the BACCH-SP is BACCH® 3D Sound technology, developed at Princeton University, which purifies stereo audio signals from the crosstalk inherent in loudspeaker-based playback, allowing the listener's brain to receive the proper psycho-acoustical cues that are needed to localize recorded sound sources realistically in 3D space.

The BACCH-SP is the most advanced digital audio processor for music playback today as it incorporates, for the first time outside the laboratory, a number of advanced technologies that combine to offer what amounts to a virtual reality sound experience for the audiophile.

These technologies include:

- 1) Individualized tonally-transparent crosstalk cancellation filters (called BACCH® filters) designed from quick calibration (impulse response) measurements made by the listener using calibrated binaural microphones placed in the listener's ears.
- 2) Real time adjustment of the 3D audio sweet spot though high-spatial-resolution tracking of the listener's head position (even in pitch darkness) using a 3D infrared camera and advanced custombuilt head tracking software.
- 64-bit audio processing through a dedicated multi-core CPU running custom-built algorithms and optimized convolution engines.
- 4) Wi-Fi-based control of all BACCH-SP functions through an intuitive and aesthetically pleasing iPad controller on a dedicated iPad that serves as the sole remote control.



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JansZen / BACCH Demonstration schedule -- AXPONA 2016 Room 546

Fri. April 15th	
10:00a - 11:00a	BACCH SP/JansZen zA1.1A
11:00a - 12:00p	JansZen zA1.1A/exaSound DAC
12:00р - 12:30р	Closed
1:30p - 2:30p	BACCH SP
2:30p - 3:30p	JansZen zA1.1A/exaSound DAC
3:30p - 4:30p	BACCH SP
4:30p - 5:30p	JansZen zA1.1A/exaSound DAC
5:30p - 6:00p	Wild card
6:00p - 6:30p	Drinks and relaxing music
8:00p - 9:30p	Private appointments*

Sat. April 16th	
9:00a - 10:00a	VIP appointments (drop-in's might be accommodated)
10:00a - 11:00a	BACCH SP/JansZen zA1.1A
11:00a - 12:00p	JansZen zA1.1A/exaSound DAC .
12:00p - 12:30p	Closed
1:30p - 2:30p	BACCH SP
2:30p - 3:30p	JansZen zA1.1A/exaSound DAC
3:30p - 4:30p	BACCH SP
4:30p - 5:30p	JansZen zA1.1A/exaSound DAC
5:30p - 6:00p	Wild card
6:00p - 6:30p	Drinks and relaxing music
8:00p - 9:30p	Private appointments*

Sun. April 17th	
9:00a - 10:00a	VIP appointments (drop-in's might be accommodated)
10:00a - 11:00a	BACCH SP/JansZen zA1.1A
11:00a - 12:00p	JansZen zA1.1A/exaSound DAC
12:00p - 12:30p	Closed
1:30p - 2:15p	BACCH SP
2:15p - 3:00p	JansZen zA1.1A/exaSound DAC
3:00p - 4:00p	BACCH SP

^{*}Sign up in Room 546 during exhibition hours, or by contacting JansZen anytime at 614-448-1811, or ask for a time through JansZen's contact page