

projects



autzen football stadium

Client: University of Oregon

Location: Eugene, OR

Project Type: Renovation

Seat Count: 41,698

Opening: 1997

Contact: Steve Pohl | Video Coordinator

AD Scope: Audio System

The University of Oregon decided it was time to replace the existing sound system in its football stadium. The existing system was made up of small format horns and four 12-inch low frequency drivers mounted in a structure above and behind the nearest seats. During football games, the closest listeners received a good dose of announcer from the system while far end zone spectators were unable to hear anything. When AD began to design the system, the basic configuration became obvious. The open "bowl" shape of the stadium, available speaker mounting locations and cost limitations of the system were the main deciding factors. The design criteria was to provide full range sound for the entire stadium.

Even with the cluster mounted over 45 feet above the closest seating area, it was still a challenge to get the sound out to the far end zone without blasting spectators in the seats below and maintain consistent tonal response at all seats. We proceeded to perform computer modeling of a hybrid horn design to find what it would take to provide loud enough sound level to the far end zone without directing energy onto the seats below the cluster. A meeting between the Washington Huskies and the Oregon Ducks provided the systems first real test, with a record crowd of 47,000 plus. The new sound system was a resounding success.

ACOUSTIC DIMENSIONS