



## Challenges and Solutions for Sound Reinforcement in Venues with Complex Acoustics: A Case Study in a Famous Cathedral.

*Maxence Castelain – Application and Support Manager at Arbane Groupe*



The lecture will delve into the fundamental principles of acoustics in reverberant spaces, shedding light on why directivity control plays a key role in achieving comfortable and intelligible sound. It will provide valuable insights into the intriguing relationship between the size of column loudspeakers and speech intelligibility. To clarify, the size of column loudspeakers is associated with their maximum range, but innovative steering technology decouples the range from the column size, relying solely on the column's height for improved directivity control at low to low-mid frequencies. Following a brief review of column loudspeaker properties, an in-depth exploration of the Lourdes Basilica case study will be elaborated.

Join us and discover how making informed choices regarding column loudspeakers can significantly enhance speech intelligibility in challenging and complex acoustic areas. Språket är på engelska.