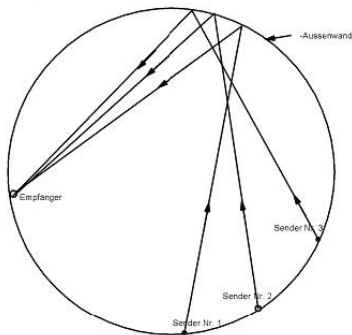


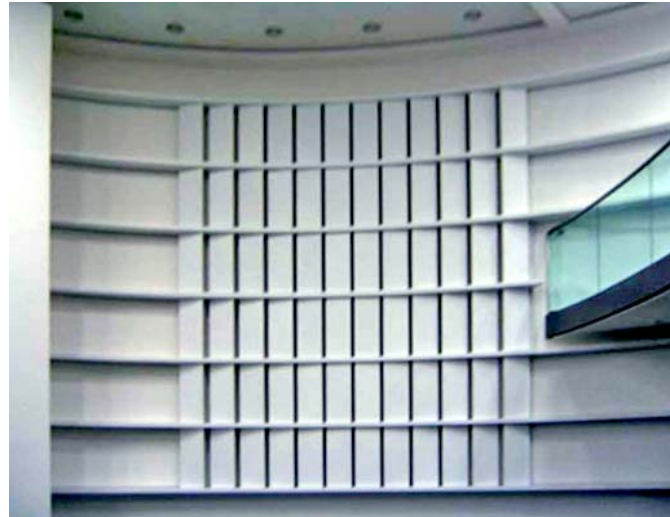
The new buildings of the two Fraunhofer Institutes in Kaiserslautern, IESE-Institute for Experimental Software Engineering and ITWM-Institute for Technical and Economic Mathematics, demand amongst others the elaboration of necessary measures regarding indoor acoustics.

For the lecture hall, with its circular sound-reflecting internal walls (concrete), particularly critical from the point of view of acoustics, room acoustics measures were proposed which are designed to avoid sound concentrations and the risk of echoing, in particular of whispering echoes.

The target of the room acoustics advice is to ensure optimal audibility. In collaboration with the architects proposals were developed for the design and the materials employed in the internal finishing of the most important rooms.



Sound-energy concentrations at the circular internal wall



New Construction of Fraunhofer Institute Buildings, Kaiserslautern, Germany

Project period
2003 - 2005

Services provided
Room-acoustics advice to optimise acoustic quality and sound propagation in the lecture hall

Technical details
Construction of two science institute buildings (basement level, ground floor, 1st, 2nd and 3rd floors)