

# Ian Shipsey

*Julian Schwinger Distinguished Professor of Physics, Purdue University*

## Bringing Hearing to the Deaf *Cochlear Implants: A Technical and Personal Account*

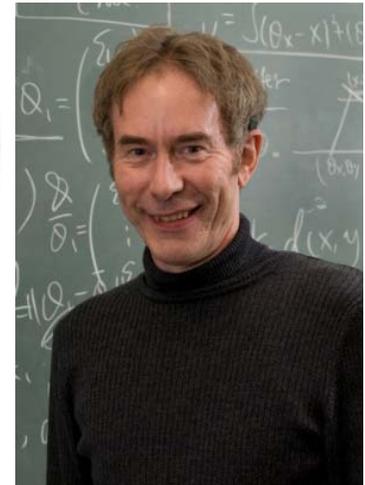
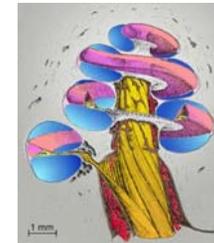
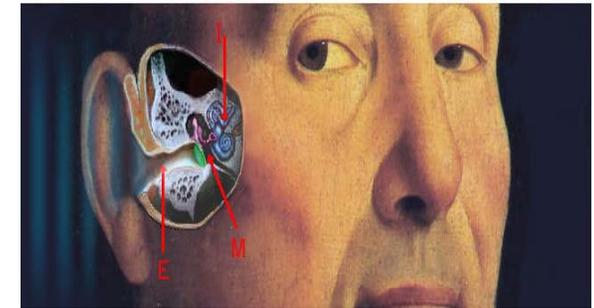
**Monday, April 13  
4:00 PM**

*Hale Library  
Hemisphere Room*

*Lecture for the General Public  
Presented by the KSU  
Department of Physics*

Cochlear implants are the first device to successfully restore neural function. They have instigated a popular but controversial revolution in the treatment of deafness, and they serve as a model for research in neuroscience and biomedical engineering. In this talk the physiology of natural hearing will be reviewed from the perspective of a physicist, and the function of cochlear implants will be described in the context of historical treatments, electrical engineering, psychophysics, clinical evaluation of efficacy and personal experience. The social implications of cochlear implantation and the future outlook for auditory prostheses will also be discussed.

**About the speaker:**  
Ian Shipsey has been profoundly deaf since 1989. Recently he heard the voice of his 11 year old daughter for the first time, and his wife's voice for the first time in thirteen years thanks to a cochlear implant.



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*Sponsored by the James R. Neff Lectureship*