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Subject: Geddes Waveguide

Posted by [Paris](#) on Tue, 12 Oct 2004 18:44:58 GMT

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I am intrigued by Geddes horn philosophy. Horns like this seem to be a wave of the future. Let me quote Geddes. He says, the goal is smooth constant directivity over a prescribed angle. Most CD horns use a diffraction slot to obtain polar control, however, diffraction gives rise to periodic peaks and dips in the response at all angles because of standing wave created from the wavefront reflection at the point of the diffraction. It is well known that diffraction less horns, like tractrix have superior sound quality, but they lack directivity control. The goal then is directivity control without diffraction. The holy grail would seem to be CD horns without diffraction. Maybe tractrix and other horns like it are obsolete?

[http://www.gedlee.com/new\\_loudspeaker.htm](http://www.gedlee.com/new_loudspeaker.htm)

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