

파동에너지극한제어연구단 소개

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The Center for Advanced Meta-Materials(CAMM) was launched in 2014 as a center for Global Frontier Projects supported by the Ministry of Science, ICT and Future Planning. The center is geared towards developing core technologies in controlling wave energies by incorporating creative artificial structures of sub-wavelength sizes. Furthermore, the center not only investigates novel meta-materials and devices but also builds new design, fabrication and application platforms in order to realize these technologies. The center will create new markets in various industries such as national defense, housing and medical care. In order to accomplish its goals, CAMM is composed of three major divisions: the fabrication/characterization technologies and application division, the advanced metamaterials for electromagnetic wave division and the advanced metamaterials for mechanical wave division. The center will concentrate its efforts in bringing innovations to conventional technologies in sectors such as machinery, ICT, energy and biomedical technology by adopting the use of advanced metamaterial systems. In this talk, we will introduce principles of advanced wave control and describe some advanced metamaterials which can provide new solutions for various social problems in future. Fig. 1 shows the hierarchy and goals of the CAMM.

