

## ***Exchange Bias in Magnetic Nanostructures***

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The study of the magnetic interactions between ferromagnetic and antiferromagnetic materials, which results in the phenomenon of exchange bias, has been the subject of intense study during the past ten years. As a result, there is a deeper understanding of the mechanisms responsible for exchange bias. I will describe recent experiments that have contributed to our improved understanding, emphasizing those performed on ideal antiferromagnets that have well-defined magnetic structures. I will also discuss some of the important questions that remain to be answered, such as the role of the interface exchange and the anisotropy in the ferromagnet and antiferromagnet.