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Abstract for an Invited Paper  
for the MAR12 Meeting of  
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**Alkane and CO<sub>2</sub> Activation by Modified Oxide Catalysts**

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I will present computational and experimental results concerning the effect of cation or anion doping on the catalytic activity of oxides. We are mainly interested in the activation of alkanes or of CO<sub>2</sub> and their conversion to useful products.