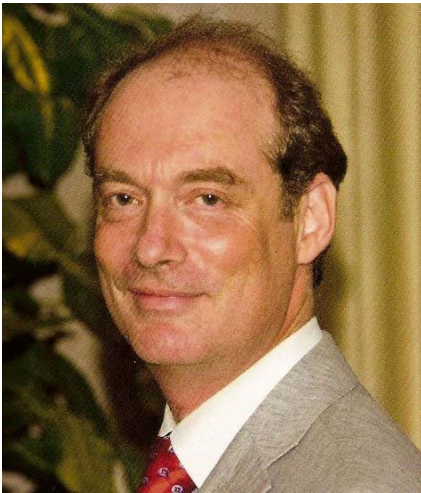


## *Dr. Michael P. Marder*

*Professor, Department of Physics*

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*Friday, October 31, 2014*

*BB 3.04.18*

*3:00 PM*

### **Physics of Hydrofracturing**

The United States has become a leading producer of natural gas, and may even become the leading producer of oil thanks to the techniques of horizontal drilling and hydrofracturing. We have found a scaling theory for gas production from these new sorts of wells. One of the conclusions from it is that only 10%-20% of the available gas is being recovered from typical wells. Understanding the physical process of water-driven fractures might help solve this problem.



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