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## Drs. Engelder and Ingraffea, Two Fracking Pioneers to Debate in Dundee, NY on January 23<sup>rd</sup>

### **“Should New York State and/or Starkey Township Allow High Volume Shale Gas Extraction”**

Wednesday, January 23, 2013 - 7:00 PM Dundee Central School



**Dr. Terry Engelder**



**Dr. Anthony Ingraffea**

Two widely recognized land grant college professors, one from Penn State, the other from Cornell will examine and debate the issue “Should New York State and/or Starkey Township Allow High Volume Shale Gas Extraction”. The program is open to all and will begin at 7:00PM in the Dundee Central School HS Auditorium in Dundee, NY.

The Starkey Town Board sponsored evening will be styled on the format of a Presidential debate with each participant being given time to comment as well to engage each other directly. Questions submitted from the audience will be encouraged to address local concerns both pro and con. The Starkey Town Board has a moratorium on high volume horizontal hydrofracking at this time. The board members have expressed an interest in providing both sides of this controversial issue. Long time Starkey resident Jack Ossont will act as the moderator.

On the surface Professors Ingraffea and Engelder appear to be quite similar. Each has been employed by many of the largest US Corporations; Ingraffea by Schlumberger, Boeing, General Dynamics, Northrop Grumman and others; Engelder by Aramco, Shell, Petrobras, Total and others. On the surface each could easily be identified as corporate insiders, but that’s where the similarity starts to fracture apart.

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Terry Engelder and a professor from SUNY Fredonia, Gary Lash, were on the forefront of the Marcellus gas “play”, an industry term used to describe a shale formation. Their early 2008 projections of up to 516 trillion cubic feet in the Marcellus with 50 trillion of it being recoverable at that time, encouraged a modern “gas rush” in areas of Pennsylvania, Ohio and West Virginia. Today both Drs. Engelder and Lash are President and Vice President of Appalachian Fracture Systems, Inc., a consulting firm to the industry. His web site bio states; “He is currently a Professor of Geosciences at Penn State and has previously served on the staffs of the US Geological Survey, Texaco, and Columbia University.” He holds degrees from Penn State B.S. (68) Yale MS (72) and a PhD in (73) from Texas A&M. In 2011, following his projections on the Marcellus Shale, Foreign Policy Magazine listed him as one of the top 100 global thinkers.

Dr. Ingraffea was also on a forefront, the beginnings of how best to fracture rock formations, including dark shales like the Marcellus. Ingraffea eventually moved from being a developer of hydrofracking and has since been researching its impacts on communities, water, air and climate change. A recent profile by writer Ellen Cantarow noted: “Ingraffea is perhaps best-known for his co-authorship of a Cornell University 2011 study that established the greenhouse gas footprint of fracking as being greater than that of any other fossil fuel including coal.” He is the Dwight C. Baum Professor of Engineering and a Weiss Presidential Teaching Fellow at Cornell. He also serves as president of Physicians, Scientists and Engineers for Healthy Energy, Inc, a group that is contesting the safety of current fracking technologies. He remains a prominent member of the Cornell Fracture Group that researches materials stress including metals used in aircraft. He holds degrees from Notre Dame BS (69 in Aerospace & Aeronautical Engineering) an MS from Polytechnic (71) and a PhD from Colorado U (77).

Engelder and Ingraffea have both received distinguished teaching awards and both men are internationally known in the discussion of this relatively new (within the past 10 years) high volume, horizontal, “slickwater”, hydrofracking technology. Those unfamiliar or familiar with the technology, in favor of or not or still undecided should gain new perspectives from this event.