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## Third Circuit dismisses appeal to expose false high temperature claims by US science in sonoluminesc

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**Third Circuit dismisses appeal to expose false high temperature claims by US science in sonoluminesc**

Released by: Thomas Prevenslik  
2005-03-10 17:50:53

### Summary:

On 3 March, the Third Circuit dismissed Appeal 04-4698 of False Claims Act (FCA) alleging false high bubble temperature claims by Leo P. Kadanoff of the University of Chicago.

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Sonoluminescence (SL) is known to produce light from bubbles in water under ultrasound, the mechanism accepted by US science being the high temperatures that accompany the adiabatic compression heating of air during bubble collapse. However, the bubbles are not filled with air, as there is no time at ultrasonic frequencies for the air dissolved in the water to diffuse into the bubble. In fact, the bubbles nucleated in water under ultrasound are only filled with condensable water vapor. By Le

Chatelier's principle, compressed water vapor that tends to 2-phase equilibrium with the liquid bubble walls maintains ambient temperature during collapse. Thus, SL light is produced by some unknown source at ambient temperature.

Over the past 50 years, US science has promoted high temperatures as the source of SL in sonofusion and sonochemistry. In sonofusion, bubble collapse was recently claimed to initiate nuclear fusion at 10 million degrees; whereas, in sonochemistry, more modest, yet false claims of 50,000 to 100,000 degrees are continually being made. On 18 March 2004 at the Physics Department at the University of Pittsburgh, Kadanoff claimed temperatures from 10,000 to 100,000 degrees.

But Kadanoff knows full well that the vapor bubbles collapse at ambient temperature, and therefore is liable under the FCA for damage to the US fisc at the expense of the US taxpayer. To avoid embarrassment to US science, Kadanoff tried to cover-up erroneous computer analysis by SL researchers that supported high temperatures claims in US funding requests. The decision by the Third Circuit to dismiss the FCA action suggests the Third Circuit itself is now in complicity with US science in perpetrating SL as the greatest hoax in the history of science on the US taxpayer.

The Third Circuit gave the reason for dismissal of the appeal as failure to timely prosecute and not pay the filing fee. But this is nonsense. Since June 2004, J Schwab of the District Court refused to rule on my Motion to Proceed in forma pauperis that would have permitted a timely filing without paying the filing fees for the Third Circuit appeal. I was also denied due process by Schwab ruling on my case in June after I informed the court that I would be out of the country until October. Unlike Schwab, the Supreme Court is hopefully not in complicity with US science in perpetrating the greatest hoax in the history of science at the expense of the US taxpayer and will remand to the FCA action to the Third Circuit and District Court.

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