

ACF Fall 2014: *Nemo auditur propriam derpitudinem allegans*

5.



15. In the primaries prior to this election, a candidate lost one state by a large margin after stating "the

20. This scientist's prediction of an aperiodic crystal containing genetic code inspired Watson and Crick, who had read his book *What is Life?* A PDE named for this physicist includes a multiplicative minus  $\hbar^2$  over  $2\mu$  times Laplacian plus potential energy term. That is the one-particle case of an equation stating  $i\hbar \frac{d\psi}{dt}$

## Bonuses

1. Just like the characters in the









15. This setup enables a set of reactants to be heated for a long time without any loss of mass. For 10 points each:

[10] Name this laboratory procedure in which liquid reactan

18. Though it is carcinogenic, ethidium bromide is often used as a dye when performing this technique. For 10 points each:

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Extra

These sites generally are located at convergent plate boundaries. For 10 points each:

[10] Identify thi