

5<sup>th</sup> International summit on**MEDICAL BIOLOGY & BIOENGINEERING**  
**&**8<sup>th</sup> International Conference & Exhibition on**BIOSENSORS AND BIOELECTRONICS**September 27-28, 2017  
Chicago, USA**What happened to the engineering in bioengineering?****Dale Feldman**

University of Alabama at Birmingham, USA

In bioengineering journal articles it is important to put the study in the appropriate context in order to justify the need for the study, the approach used, and the significance of the results. This means: Where does the paper fit in the engineering design process? Even if a paper states a clinical issue, most will not explain how significant a problem this is. Then, the design constraints need to be presented with how any proposed solution meets the entire have to design constraints. The specific improvement in clinical performance should also be specified as well as the believed relationship between the pre-clinical performance design constraint(s) the study is focusing on and these clinical performance design constraints. Even if it is a feasibility study to determine if the proposed solution has the potential to meet the pre-clinical design constraint(s), a study needs to justify where it is in this design process. In the discussion, what the study showed relative to the design process should be explained as well as, at least in general, what future studies are needed to determine if the proposed solution could meet the clinical performance design constraints. Too often a paper will claim it showed the potential of the solution to be used in a clinical situation without fully identifying the problem with current treatments, the improvement in clinical performance desired, or what additional studies would be needed to show the proposed solution could meet the clinical performance design constraints.

dfeldman@uab.edu