Creating S-N Curves Within Fatigue Study

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If you try running your Fatigue Study after adding the event "Variable Amplitude Loading" and you get an error regarding not having an S-N curve then here is what to do.....

1) Expand your part(s) on the left of your screen in the Fatigue Study Area

2) Right click on your part(s) one at a time selecting 'Apply/Edit Fatigue Data'

3) Ideally you already have a material selected and it's highlighted in the left hand column

4) In the Source Box leave Interpolate as 'Log-log'. Click the 'Define' radio button and make the drop-down next to it 'Curve-0(R=-1)'.

5) Now you should be able to edit the S-N table in the Table data box.

6) Calculate S\_m and S\_e' for your material, and use those values to fill out the S-N table at their corresponding number of cycles.

7) Apply the values, close the dialog box and run successfully!

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Robert Amaro Instructor Manager

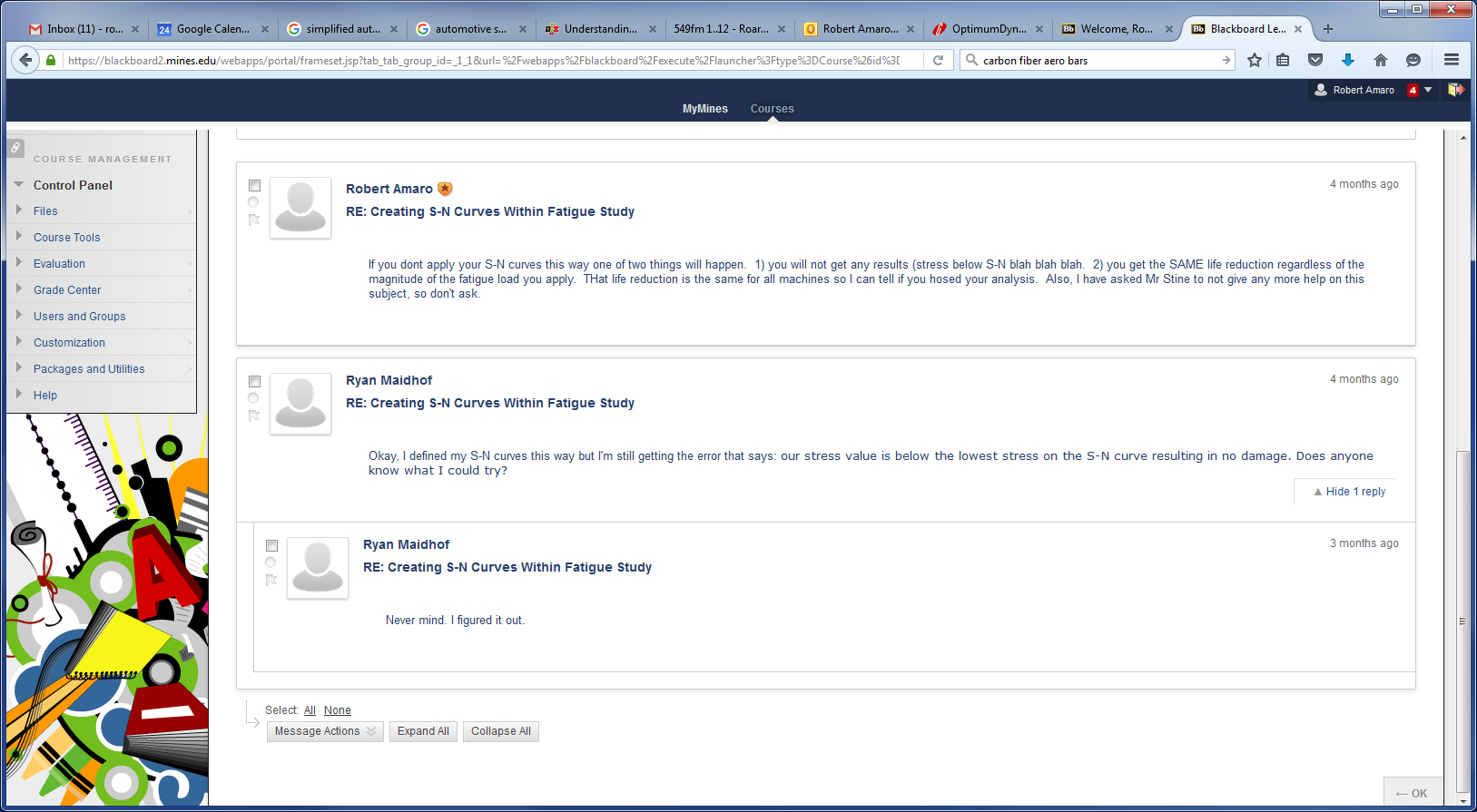
[RE: Creating S-N Curves Within Fatigue Study](javascript:displayMessage('_152261_1','_152285_1',%20null,%20null,%20true,%20true)) RE: Creating S-N Curves Within Fatigue Study

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If you dont apply your S-N curves this way one of two things will happen.  1) you will not get any results (stress below S-N blah blah blah.  2) you get the SAME life reduction regardless of the magnitude of the fatigue load you apply.  THat life reduction is the same for all machines so I can tell if you hosed your analysis.  Also, I have asked Mr Stine to not give any more help on this subject, so don't ask.

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