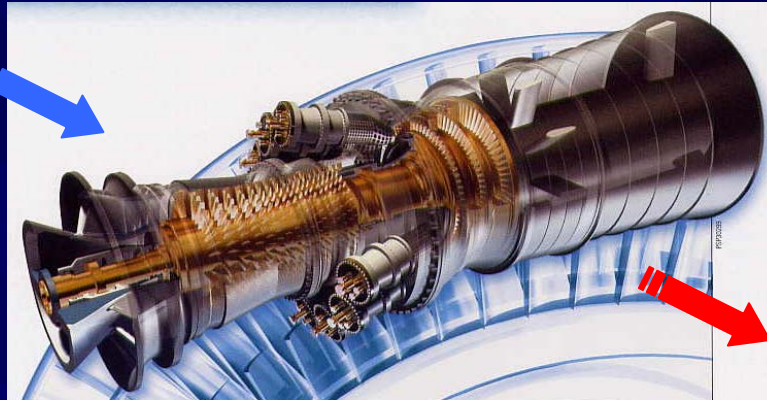


Improved Scheduling of Maintenance Intervals



Turbine blade surfaces degrade with service...



...and surface degradation decreases performance!



Brigham Young U.

Jeffrey Bons #104

- Old correlations of performance vs. surface degradation were developed over half a century ago and were inaccurate.
- Turbine hardware supplied for evaluation by GE, SPG, P&W, Solar, Honeywell, Praxair and Standard-Aero

- New data led to improved correlations which will result in more cost-effective maintenance cycles and prevent unscheduled maintenance.
- Results solicited by GE, SPG, P&W and Praxair for potential use.
- This research has moved the industry towards assessing roughness as it really occurs in the engine, rather than using approximations.
- Future maintenance intervals are likely to be based on this correlation and should reduce maintenance costs while increasing availability.

