

been done. Additional peening trials were performed to investigate the effects of media size, peening intensity and coverage on surface roughness and surface residual stresses. Results showed that roughness and residual stress magnitude were generally favored by intermediate intensity in the range investigated, and by greater coverage over the range investigated although the latter effect was modest. The effect of media size over the range investigated was a mixed bag.

Recommendations for process improvement to the leaf spring manufacturer from results of this investigation were as follows:

- Acquire online screen separator capability for media maintenance or switch to conditioned cut wire media to greatly reduce media particle breakage.
- Reduce peening intensity somewhat from 6-7C to 12-14A. This should also serve to reduce media breakage.
- Change media flow rate and/or conveyor speed to ensure coverage within the 100-200% range.

The leaf spring manufacturer has implemented several changes including the use of conditioned cut wire media, moved the average spring hardness to the upper end of the scale and added speed controllers to the conveyor and wheel. Further fatigue testing over time hopefully will demonstrate life benefits



John Cammett Dr. John Cammett, Materials Engineer/ Metals Branch Chief, recently retired after more than 15 years service with the U.S. Navy (Navair) in the In Service Support Center to the Fleet Readiness Center East, Cherry Point, North Carolina. His more than forty-year professional career has also included materials

engineering and management positions at the General Electric Company, Evendale, Ohio; Metcut Research Associates Inc. and Lambda Research Inc, Cincinnati, Ohio. His areas of expertise at Cherry Point included analysis of aircraft component failures, aircraft mishap investigations, development of repair/rework process methods and technical support of depot manufacturing/ rework/repair operations, surface integrity investigations and metallurgical applications. A Registered Professional Engineer, Dr. Cammett is a fellow of ASTM, past Chairman of Committee E-9 on Fatigue, Life Member of ASM International and past chairman of the Cincinnati Chapter, also a member of the International Scientific Committee for Shot Peening and a conferee of the 2006 Shot Peener of the Year Award. In "retirement", Dr. Cammett is currently involved in training and consulting activities with Electronics Inc., Nadcap auditing plus other research and consulting activities in the private sector. He will be an instructor at all four of the 2008 EI workshops. Dr. Cammett may be contacted via cell phone at 1-910-382-5771 or email at pcammett@ec.rr.com.

2007 Shot Peener of the Year: Ken I'Anson



Ken I'Anson received the 2007 Shot Peener of the Year award at the U.S. Shot Peening and Blast Cleaning workshop in Arizona.

The Shot Peener magazine was pleased to award Ken I'Anson the 2007 Shot Peener of the Year award at the 2007 U.S. Shot Peening and Blast Cleaning workshop. The award is given to persons that make significant contributions to the advancement of shot peening in either commercial or academic venues.

Ken has been involved in the shot peening industry from the equipment side for 27 years. His experience is unique in that it has covered both centrifugal wheel peening and compressed air nozzle peening. He is a Sales Engineer for Progressive Technologies and focuses on airframe and land-based turbine shot peening applications. He not only understands the mechanics of the machines but the process of peening and the requirements for successful peening results.

Ken has contributed many articles and papers for the EI Shot Peening Workshop manuals and has attended the Workshops since the beginning in 1990. He has obtained Level 3 Exam certification at the EI workshops. He is also a frequent contributor to *The Shot Peener* magazine and the forums at www.shotpeener.com.



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