

From the Desk of... Jack Champaigne

○ **The 1999 Workshop.** Workshop '99 was a success! We had many foreign visitors come get a taste of the wild wild west in New Mexico. If you left hungry, it was your own fault. (John Cammett thought it was a cruise ship with so much food.) We hope that everyone that attended had a good time and will plan to come again next year. Pam (Champaigne) is still working on site selection. Hot choices are Salt Lake City, Denver, Wichita and Detroit.

○ **Purdue Shot Peen Center.** Electronics Inc. sponsored a banquet in October to honor the companies making contributions to Purdue University school of mechanical engineering technology. Don Gentry, Dean of the school of Technology, was present to accept the donations and Assistant Dean of Engineering, Warren Stevenson, added remarks on the cooperation from various schools of engineering. Contributions were received from Progressive Technologies, Ervin Industries, Premier Shot, Electronics Inc., W.S. Tyler, Zero Products/Clemco and Lambda Research. General Electric Aircraft Engine Group also expressed interest in supporting the program. For additional information contact Mike Magill, Head of Mechanical Engineering Technology, at mamagill@tech.purdue.edu or visit The Shot Peener web site.

○ **2000 Annual Buyer's Guide.** The next edition of the Annual Buyer's Guide is ready. If you didn't get listed, be sure to visit The Shot Peener web site so you can be included on the internet version. Note: buyer's guides are mailed FREE if you send in a card or request via web site PRIOR to the bulk mailing. After the bulk mailing is sent out, copies will cost \$15 US and Canada and \$25 elsewhere.

○ **On-site Training Available.** Electronics Inc. continues to offer shot peening on-site training. The program includes a review of your equipment and processes and evaluation of your capability to meet required specifications or repair directives. For more information contact our training instructor Peter Bailey at pbailey433@aol.com. or visit our web site.

○ **New Voice at EI.** The new voice you hear when you call Electronics Inc. is Pam Champaigne (she's my sister, I didn't marry Pam Werner). Pam Werner went to the College Football Hall of Fame in South Bend, Indiana. We'll miss her and wish her well in her new career. Everyone is encouraged to give my sister a hard time.

○ **New SAE J2441 Shot Peening.** A new specification on shot peening is offered by SAE. Dave Hale, (Ervin Industries ret.) was the sponsor and it is similar to SAE AMS 2430 but intended for the non-aerospace industries. To contact Dave: davidahale@worldnet.att.net.

○ **Next SAE Fatigue Design and Evaluation meeting.** The next meeting of FD&E committee will be held in Waterloo, IA.

1999 Shot Peener of the Year: Andrew Levers



Jack Champaigne, Electronics Inc., awarded Andrew Levers with the 1999 Shot Peener of the Year plaque at ICSP7 in Warsaw Poland.

We are please to announce that Andrew Levers, with BAe Airbus, was the recipient of the 1999 Shot Peener of the Year award. Andrew recieved the award for his research on peen forming—his work on peen forming large aircraft pieces is particularly impressive. The following is his biography.

Education

M.S degree in Mechanical Engineering
M.S in Structural Integrity
Currently completing Ph.D in Mechanical Engineering

Employment

BAe Airbus since 1990

Job Title: Forming Technologist

Responsibility for forming technology and research (including saturation peening) for BAe Airbus. Major interests lie within the development of numerical simulation methods and tools for component forming, and the development of manufacturability assessment tools for conceptual design.

Member of the International Scientific Committee on Shot Peening.

Member of SAE Committee B and SAE Surface Enhancement Division.

Publications List

1. Levers A., Prior A., Finite Element Simulation of Shot Peening. The Shot Peener Fall 1995., ISSN 1069-2010.
2. Levers A., Finite Element Analysis of Creep Age Forming., ABAQUS World User Conference May 27-29 1998, Rhode Island.
3. Levers A., Prior A., Finite Element Analysis of Shot Peening., Journal of Materials Processing Technology Volume 80-81 1998.
4. Levers A., Tanner A., Al-Khalil M., Platts M.J, Development of an Integrated Decision Support System for Creep Age Forming., Multi-disciplinary Design and Optimisation, The Royal Aeronautical Society 1998.
5. Rios E.R., Trooll M., Levers A., Improving the Crack Resistance of 2024 T351 Aluminium Alloy by Shot Peening. Life Extension Aerospace Technology Opportunities Churchill College Cambridge March 23-25 1999.
6. Orlov E., Rios E.R., Brown M.W., Fernando U., Levers A., Effect of Shot Peening on the Fretting Fatigue Behaviour of BS L65 Aluminium Alloy. ICAF9 Structural Integrity for the Next Millenium, 12-16 July 1999, Seattle/Bellevue, USA.
7. Rios E.R., Solis J., Levers A. Optimisation of the Shot Peening Process in Terms of Fatigue Resistance., The 7th International Conference on Shot Peening, September 28 - October 1, 1999, Warsaw Poland.