

# From the Desk of... Jack Champaigne

## ○ 1998 Shot Peening and Blast Cleaning Workshop

It's that time of year again to get ready for the Annual Blast Cleaning and Shot Peening Workshop. The format has changed, again, to accommodate more students and more exhibitors.

We expect close to 200 students this year, up from 120 last year. And we have space for 50 display exhibits compared to 14 last year. You can check out who's attending by going to the website [www.shotpeener.com](http://www.shotpeener.com) and clicking on [1998 Workshop](#).

You'll be able to view/print the list of registered students and also see the list of exhibitors (co-sponsors) with hot-links to each of their web pages. We sincerely appreciate the support of all of the co-sponsors, their participation makes the hospitality sessions possible. And you won't want to miss these hospitality sessions. How do we top the oysters and frivolity from last year in my master suite? Dr. Cammett has a lot to live up to again.

The classroom setup this year will provide an opportunity for a wide range of options. The four classrooms will focus on Peening, Cleaning, Wheel Machines, and Air Blast Machines. The agenda is posted on the website along with course description and speaker biography. Registration occurs on Monday with hospitality Monday evening and classes start early Tuesday morning. Wednesday we'll offer a tour of the Delta Airlines Repair Facility in Atlanta (and more hospitality time).

Thursday is the conclusion of workshop at noon with optional shot peener certification exams level 1 and level 2 offered after lunch at 1:00. After the break the answer sheets are distributed so you can tell how well you did (70% grade required to achieve certificate). Cost for the certification exam is only \$100 and you can register as late as 1:00 on Thursday. Attendance to the workshop or prior work experience is all that is required for level 1 exam. Those that passed level 1 exam last year may sit for the level 2 exam. Details of expectations of each level may be found on the web page for the workshop. Level 3 exam will be offered next year for people responsible for in-house training. Level 4 exam will be offered throughout the year at Electronics Inc. for people responsible for advanced peening techniques and research/development.

## ○ Pete Bailey joins Electronics Incorporated staff

Electronics Inc. is pleased to announce that Peter Bailey, a Shot Peener of the Year recipient of 1993, and formerly with General Electric Aircraft Engine Group, has joined EI as instructor and certifying agent. Pete has developed a 3-day on-site training course designed to assure facility operators that their equipment and personnel are capable of meeting specification requirements. See the article on page 37 for more information on this program.

## ○ Welcome to our new distributors

Electronics Inc. is pleased to announce the addition of two new distributors: CBC Ytfinish Ab of Sweden and G & L Beijer AS of Norway. We will be adding more distributors by the end of the year; visit our web site for a current list.

# Articles of Interest

1992 The Development of New Type Almen Strip for  
92009 Measurement of Peening Intensity on Hard Shot Peening  
6 pgs MAT-TEC 92, IITT International  
Watanabe, Hasegawa, Namiki, Hatano

In hard shot peening, it has been pointed out that Almen A type strip is not proper as an index of peening effect, because the arc height measured by Almen A strip is not in good correspondence to surface residual stress. Based on this background, the relation between residual stress and the arc height measured by conventional C strip and the high hard trial strip with hardness of HRC 60 was investigated. It was concluded that the arc height measured by high hard trial strip was in good agreement with the maximum compressive stress and the magnitude of stressed layer.

# Patents Granted

In the Metal Finishing Field

Printed copies of patents are furnished by the Patent and Trademark Office for \$3.00 each. Address orders to: Commissioner of Patents and Trademarks, Washington, DC 20231

## Peening of Titanium Alloy Implants

US Patent 5,704,239 Jan. 6, 1998  
N.B. Beals and W.L. Sauer  
Memphis, TN

A method of preparing fretting wear-resistant titanium alloy orthopedic implants, comprising shot peening the surface with ceramic beads of a selected shot size, shape and with selected intensity and coverage uniformity so that the fretting wear resistance of the implant is increased; and wherein the implant surface area is peened such that a compressively stressed region of 100 to 300 microns in depth is achieved.

## Blast Nozzle

US Patent 5,704,825 Jan. 6, 1998  
G. J. LeCompte  
Houston, TX

A nozzle liner for the mixing of a propellant fluid and an abrasive particle mixture.

## Blasting Apparatus

US Patent 5,709,590 Jan. 20, 1998  
W.S. McPhee and A. Nguyen  
Sterling, VA

A pressure-balanced vacuum blast head.