

ABSTRACT

September 13, 2013

What does it take to be a successful contributor in the Oilfield Service Industry?

Why would you want to be a contributor in the Oilfield Service Industry?

- Education
- Training/Experience
- Dedication
- Commitment
- An Open Mind
- Enquiring Mind
- Team Skills
- Innovative

Technical Presentation:

AREAS OF TECHNICAL IMPORTANCE

- Material Enhancement
- Seals
- Polymers
- Plastics
- Composites
- Steels
- Forgings
- Castings
- High Alloy Materials
- Carbide
- Diamond
- Ceramics
- Thermal Processing – Heat Treat, Cryogenics
- Welding – Joining – Wear Surfacing
- Process Improvement
- Coatings
- Tribology – Lubrication – Wear
- FEA

- CFD
- **NANO**

EXAMPLES OF SPECIFIC TECHNOLOGY

- Microwave Sintering
- FEA as a Tool
- Diamond Enhanced Technology

ED BOYCE – BACKGROUND

I have a degree in Chemistry and Materials Science. I have worked for Halliburton/Dresser for 47 years. I worked as a Metallurgy/Analytical Chemistry Lab Tech, Materials Science Research Scientist, a manager of both of these functions and a Sr. Scientific Advisor - my current position.

I am a generalist, and as such I have been fortunate to have worked with all the new material technologies the Company has evaluated. I have also been blessed with the responsibility of building 5 major Materials Science Labs.

My current role requires me to seek out new technology, and as a part of that I try to cultivate strong professional relationships with university Technical Centers. I am on the Industrial Advisory Boards (IAB) for both UNT's Mechanical Engineering and Material Science Departments. I am also on the IAB for the School of Engineering. We just obtained the EAC-ABET certification for the M.E. Department and are working on the same for the Materials Science Dept. These are very rewarding experiences and are critical for strengthening our state based universities which in turn is vital to the growth of our industries.