

Geoff B Associates

18, Carousel Walk
Sherburn in Elmet
Leeds
LS25 6LP
+ 44 (0)7525422055

www.geoffbassociates.com

Intensive Quenching Technology "Its' role in heat treatment and the reduction of product and process costs"

**5th June 2013
9-30am - 2-30pm
Durham, UK**

Hosted, organized and presented by Geoff B Associates in association
with IQ Technologies, Inc.

This one-day workshop is designed to provide you with an overview of IntensiQuench® processes and production IQ equipment; examine the data from actual case studies, and give you a forum to discuss the use of intensive quenching for your products.

The workshop will help answer these questions for you:

- Can a quench process provide both high strength and high ductility at the same time?
- How does intensive quenching equipment differ from traditional water, oil, salt or gas quenching systems?
- How can my heat-treated products benefit from intensive water quenching and save costs too?

Who should attend this workshop?

- Heat- treaters and metallurgists who need more from the quenching process.
- Steel product design engineers working on developing greater power density parts.
- Manufacturing engineers integrating heat treating into the manufacturing cell.

Copyright Geoff B Associates 2013

IQ Technologies Inc

Member of
NOF
energy

The technical program includes:

09-30 - 10.00 Registration

10-00 - 10-15 Welcome and Introductions

10-15 - 11-15 Basics of Intensive Quenching

- Basics of conventional and intensive quenching
- Definitions and types of intensive quenching process
- Improved steel microstructure after intensive quenching
- Improved steel mechanical properties after intensive quenching
- Improved residual surface stress conditions
- Steels and parts suitable for intensive quenching
- Summary of intensive quenching process benefits

11-15 - 11-30 Break

11-30 - 12-00 Case Studies

- A selection from; automotive, heavy truck and railroad components; tool and bearing products.
- Fork-arms
- Duplex and super duplex stainless steels
- Castings

12.00 - 12-15 Modelling

- Materials and process data for intensive quenching

12-15 - 12-45 Commercialisation

- Process economics
- Major steps in intensive quenching process introduction

12-45 - 14-30 Buffet Lunch and Networking

Registration Fees:

Registration is now open and seating is limited.

£85.00 per delegate (NOF Energy members £45.00)

or [contact us](http://www.geoffbassociates.com/contact_us) to request an invoice at www.geoffbassociates.com/contact_us

The delegate pack will include copies of the PowerPoint presentations and a Bibliography of several articles on intensive quenching.

Copyright Geoff B Associates 2013



Date, Time and Place:

5th June 2013
9-30am - 2-30pm
NOF Energy Offices
First Floor
Thames House
Mandale Business Park
Belmont Industrial Estate
Durham
DH1 1TH
United Kingdom

Directions**Car**

- Leave the A1(M) at junction 62
- At the roundabout, take the exit marked A690 (signposted Durham, Consett)
- Continue towards Durham city centre and take the first exit (signposted Belmont)
- Turn left at the junction and continue to the traffic lights
- At the traffic lights turn left (Premier Inn and Broomside Park on the corner on your left)
- Do not take the first right into Belmont Business Park, but continue down taking the third right into MANDALE BUSINESS PARK
- Continue a short distance to the end, you will see Thames House on your right, turn right
- Turn right again and park in the Thames House car park behind the building. Parking is free of charge.

Please ensure you park within the designated parking bays and do not park on any yellow lines.

Only park in the disabled parking bays if you have the appropriate permit which should be displayed clearly.

Rail

- **Durham Railway Station**, approximately 2 miles from Thames House
- **Newcastle Central Station**, approximately 17 miles from Thames House

Airport

- **Newcastle International Airport**, approximately 25 miles from Thames House
- **Durham Tees Valley Airport**, approximately 28 miles from Thames House

Copyright Geoff B Associates 2013



Delegate Registration Form

Name (s)

.....

Company / Affiliation

Address

.....

.....

.....

Contact Phone

Contact E-mail

Do you have a specific question regarding Intensive Quenching, which you would like addressed. If so, please state the question (s).

.....

.....

.....

Amount enclosed: Attendees..... x Fee £85 = Total £.....

Forward to
Geoff B Associates
18, Carousel Walk
Sherburn in Elmet
Leeds
LS25 6LP

Questions?
Please contact Geoff Bolton at geoff.bolton@geoffbassociates.com or +44 (0)7525422055

Please note there is no VAT on delegate registration fees.

Copyright Geoff B Associates 2013

