

# MODERN FURNACE BRAZING SCHOOL



WALLCOLMONOY

## Wall Colmonoy's European Brazing School 8- 10 November 2022

### Take Part in the Only Hands-On Brazing Seminar!

Brazing has never been a more relevant manufacturing technology than today. In areas such as heat transfer, aerospace, automotive and medical, engineers are turning to brazing to achieve designs that push conventional limits. The advantage of brazing in modern manufacturing is the ability to achieve high-strength joints in components involving ever more challenging base materials and complex geometries. This is a great advantage over welding which suffers from distortion, stresses, design limitations and a heat affected zone.

At Modern Furnace Brazing School, engineers, technicians, quality managers, production managers, and others will discover what can be achieved with brazing. They will participate in "hands-on" practical applications while learning about brazing technology from the industry's leading brazing engineers. As brazing experts, Wall Colmonoy engineers work on the most advanced brazing projects across many industries. For over 70 years, Wall Colmonoy engineers have been at the forefront of actual problems in brazing plants around the world.

Unlike other classroom-only seminars, Brazing School attendees will tour the facility and see the application of brazing alloys on the shop floor. They will also have the opportunity to apply different forms of filler metal to supplied samples, have them vacuum brazed and discuss the outcomes. Modern Furnace Brazing School will allow you to apply workable solutions to your brazing needs. In fact, bring your brazing questions to the seminar.



### Included in this Unique Three-Day Session:

- **Design:** brazing technology, definitions, and overview and joint design.
- **Metallurgical Aspect of Modern Furnace Brazing:** diffusion mechanism and metallurgical reactions between base and filler metal.
- **Controlled Atmosphere:** overview of brazing atmosphere, evaluation and quality control of atmosphere.
- **Furnace:** Type of furnaces, heating methods and furnace controls.
- **Brazing Material Selection:** a detailed look at various nickel-base braze filler metals, brazing aids, and their use and application.
- **Brazing Operation:** reviews of fundamental pre- and after- brazing cleaning, assembly, fixture, brazing cycles, and other brazing processes.
- **Quality Control:** inspection methods and process controls.
- **Actual applications and case studies**
- **Practical experience on the shop floor:**
  - Pre-cleaning, blasting, selecting fixture, setting the furnace cycle, and examining the brazed parts.
  - Filler Metal Application Methods
    - Screen Printing/Stencil
    - MicroSpray™ System
    - Roller Coating
    - Powder
    - Paste Dispensing Systems
    - Transfer Tape



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## The Course Leaders

Wall Colmonoy's instructors have a wealth of experience within a company that has a brazing legacy spanning more than 70 years. They provide practical solutions to brazing challenges and have the technical know-how to guide you through the brazing process from beginning to end production.

- Dr. Alun Battenbough, PhD, BEng (Hons) MRes, Technical Services Manager
- Artur Martin Osmanda, Dipl.-Ing. (Diplom-Ingenieur), Manager Alloy R&D
- Dr. Lewis Berry, EngD, MChem, LCGI, MRSC, MIOM3, Business Development Manager
- Dr. Chris Weirman, BSc(Hons), EngD, Director of Technology
- Peter Williams, 29+ Years Brazing Experience, Business Unit Manager

## Location and Fees

The cost of the course is £1,600. Any cancellations received within two weeks prior to the course will be subject to £800.00 cancellation fee for each attendee (50% of total).

The course cost also includes **Brazing Footprints: Case Studies in High Temperature Brazing by R.L. Peaslee**, the father of Nickel-based brazing.

Sessions will run from 8:30 AM to 5:30 PM each day.

*Subject to change - agenda will be sent to attendees when finalised*

### Address

Wall Colmonoy Limited  
Alloy Industrial Estate  
Pontardawe  
SA8 4HL

### Includes

- Brazing school binder of seminar materials
- Tea and Coffee Break
- Refreshment between breaks
- Three lunches
- Accommodation

### Attendees are responsible for

- Transportation costs
- Dinner and other expenses

### Accommodation

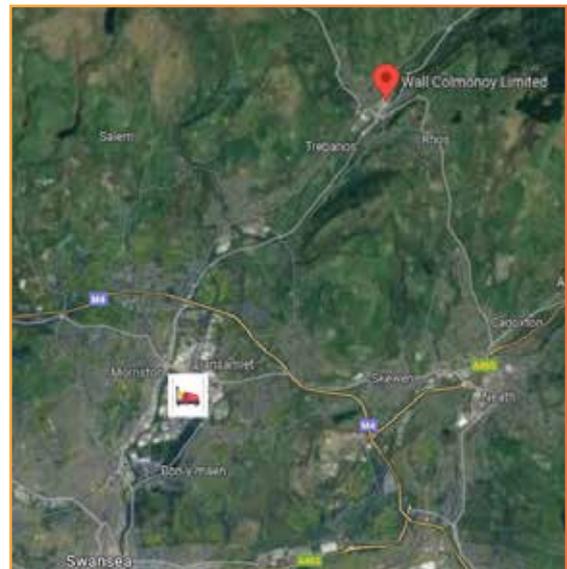
For your convenience, accommodation is included in the price of the seminar.

Wall Colmonoy has booked rooms at the 4-star Mercure Hotel [www.mercureswansea.co.uk](http://www.mercureswansea.co.uk).

Confirmation of your hotel booking will be sent upon registration.

To make alternative arrangements, please contact us at

[brazingschool@wallcolmonoy.co.uk](mailto:brazingschool@wallcolmonoy.co.uk)



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## **Registration Form - 8-10 November 2022**

To enroll, complete Registration Form by clicking [here](#) or the link below. If paying by check, send to

Rose Hall  
Wall Colmonoy Limited  
Alloy Industrial Estate  
Pontardawe  
SA8 4HL  
Tel: 07966413596

[brazingschool@wallcolmonoy.co.uk](mailto:brazingschool@wallcolmonoy.co.uk)

### **To register:**

Please use our online booking system [Here](#) or visiting <https://billetto.co.uk/e/modern-furnace-brazing-school-europe-tickets-660562> (Copy and paste link into your browser if the link is not automatically redirecting you)

Payment is due in full by start of session.

*Any cancellations received within two weeks prior to the course will be subject to a £800.00 + VAT (if applicable) cancellation fee for each attendee (50% of total).*