

Role of Equipment Manufacturer in Training of NDT Personnel

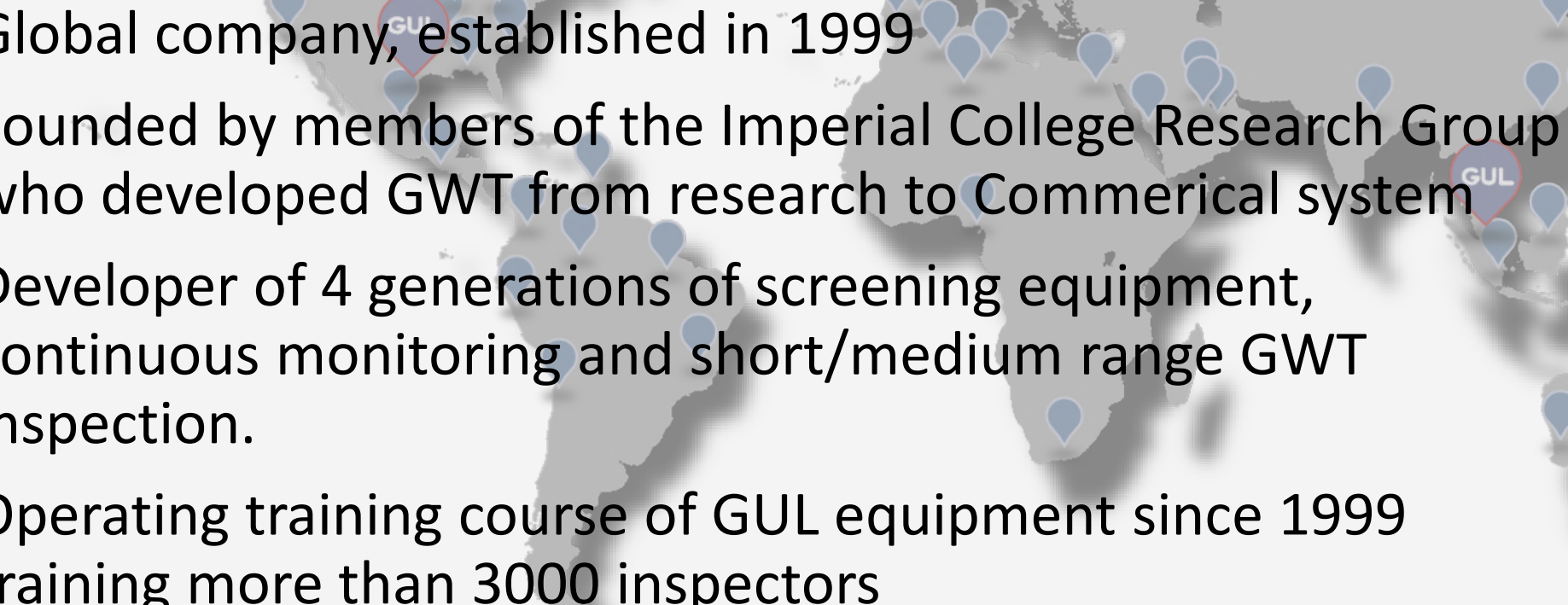
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- Introduction to GUL
- What is Guided Wave Testing
- Why equipment specific training
- Challenges of training Inspectors in GWT

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- A grayscale world map with numerous blue location pins. Several pins are highlighted with a red border and the letters 'GUL' inside, indicating specific office locations in North America, Europe, and Asia.
- Global company, established in 1999
 - Founded by members of the Imperial College Research Group who developed GWT from research to Commercial system
 - Developer of 4 generations of screening equipment, continuous monitoring and short/medium range GWT inspection.
 - Operating training course of GUL equipment since 1999 training more than 3000 inspectors



- Head Office located in Brentford, UK:
 - ⦿ Research & Development
 - ⦿ Hardware assembly line
 - ⦿ Software development
 - ⦿ Training facilities



Why equipment specific training



- There are very few GWT systems available
- Differences between the systems are significant
- GUL are continuously developing and improving hardware and software
- Effective and efficient inspectors need to be familiar with the tools the system providers

Milestones



Challenges of GWT inspector training



- GWT can cover many 10s of meters of pipe work on diameters of less than 1” to more than 60” and so test and examination pieces covering this range are near impossible to provide.
- External factors such as coatings, support types and defect types will influence the results obtained.
- Training in use of equipment to collect good data is relatively straight forward.
- Good training relies on having a wide selection of data from these different scenarios.
- Training levels are split by application based on complexity of inspection and ease with which follow-up of indications can be made
- GUL have developed FE software that allows highly accurate data from simulated defects that can be blended seamlessly into real data file to allow an unlimited set of training and examination data files