



---

**Poseidon House  
Castle Park  
Cambridge CB3 0RD  
United Kingdom**

TELEPHONE:  
INTERNATIONAL:  
FAX:  
E-MAIL:

**Cambridge (01223) 515010  
+44 1223 515010  
+44 1223 359779  
apm@ansa.co.uk**

---

## **Training**

# **ANSAwise - Welcome [BT, to (2-day) Building Applications with Distributed Objects]**

**Chris Mayers**

### **Abstract**

This is the 'welcome speech' to the course "Building Applications with Distributed Objects". It gives the course roadmap and timetable.

This presentation is for the course as customized for BT. It is the 2-day version of the course; the corresponding 3-day may be modified in line with this course in future.

[Note that this presentation includes the BT logo as a bitmap. There may be difficulty printing this on some printers.]

---

APM.1660.01

**Approved**  
Briefing Note

20th November 1995

---

**Distribution:**  
**Supersedes:**  
**Superseded by:**





**Welcome to**

***Building Applications with Distributed Objects***

**Chris Mayers (apm@ansa.co.uk)**



---

## About this course

- *It provides practical techniques and advice for building distributed applications, with the tools and products you can buy today*
- *... based on open distributed systems using object technology*
- *It focuses on the key standards and issues you need to appreciate*
- *... to select technology today*
- *... and to design applications that can evolve in the future*



## Course Timetable - Day 1

---

*Welcome*

---

Building Applications with ANSA

---

The CORBA Object Management Architecture

---

*Break*

---

Designing Applications with CORBA

---

*Lunch*

---

CORBA Concurrency and Transactions

---

CORBA Infrastructure Engineering

---

*Break*

---

CORBA Interoperability

---

*Close*

---



---

## Course Timetable - Day 2

---

*Review of Day 1*

---

Remote Procedure Call in Distributed Systems

---

DCE Distributed Services

---

*Break*

---

Dependability in Open Distributed Systems

---

*Lunch*

---

Replication Techniques in Distributed Systems

---

Multimedia in Distributed Systems

---

Course Roundup

---

*Close*

---



## Structure of the course - 1

- ***Building Applications with ANSA***
  - how are object services deployed in real products?
  - how can these object services be used together?
  - how can trading be used?
- ***The CORBA Object Management Architecture***
  - what are the features of the CORBA Object Management Architecture?
  - what are the interfaces to the Object Request Broker (ORB)?
  - what work is in progress?
- ***Designing Applications with CORBA***
  - what standard interfaces are available to applications?
  - what must be considered when designing object implementations?
  - how should interfaces between objects be determined?



## Structure of the course - 2

- ***CORBA Concurrency and Transactions***
  - what the basic principles of concurrency?
  - what the implications of threads (lightweight processes)?
  - what facilities does the CORBA Concurrency Control service provide?
- ***CORBA Infrastructure Engineering***
  - what design trade-offs are available?
  - how can these trade-offs be made transparent to applications?
  - how should ORBS be engineered?
- ***CORBA Interoperability***
  - what are the implications of interoperability for interconnecting ORBs?
  - how does CORBA 2 support multiple protocols?
  - what are the challenges involved in implementing interoperability?





## Structure of the course - 3

- ***Remote Procedure Call in Distributed Systems***
  - what can happen when Remote Procedure Call fails?
  - what advanced forms of Remote Procedure Call exist?
  - how should the performance of Remote Procedure Call be assessed?
- ***DCE Distributed Services***
  - which services does DCE offer, but CORBA not offer?
  - how do these services fit together?
  - how is DCE likely to evolve?
- ***Dependability in Open Distributed Systems***
  - what are the basic concepts of dependability?
  - how can objects help build dependable systems?
  - what support do CORBA and DCE offer for dependable systems?



## Structure of the course - 4

- ***Replication Techniques for Distributed Systems***
  - what are the fundamental challenges for replication technology?
  - what has experience taught us?
  - how will replication technology be integrated with CORBA?
- ***Multimedia in Distributed Systems***
  - what new demands does multimedia place on distributed systems?
  - what new mechanisms are required?
  - what support already exists for these mechanisms?



**Enjoy the course!**

- *... and ask questions whenever you wish*

