

1997 CERN School of  
Computing

→ Průhonice

17 - 30 August 1997

Programme

PRELIMINARY VERSION

neep (Czech accents)

March 1997

ADVISORY COMMITTEE

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The lectures in this second week will present this concept, will provide a road-map of information systems, and will describe what has been already realised at CERN in this field (including WIRED, CEDAR, LIGHT), what is being developed, and will put these efforts into perspective with outside developments.

9

P. Binko, *Lawrence Berkeley Laboratory* - OO Databases

W. Hall, *Southampton University* - Making Links in Unstructured Data: an Introduction to Hypermedia

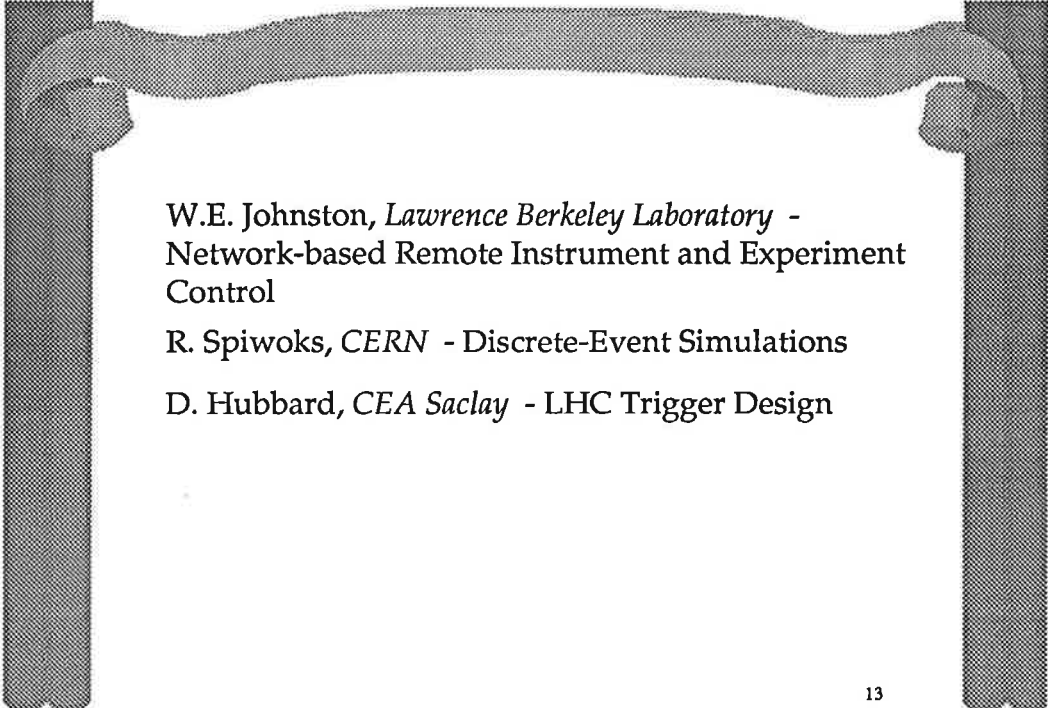
W. Hall, *Southampton University* - Making Links in Web Database Applications

S. Malaika, *IBM* - Making Links in Structured Data: an Introduction to Databases

S. Malaika, *IBM* - Making Links in Web Database Applications

M. Donszelmann, B. Rousseau, *CERN* - Information Systems for Physics Experiments with exercises

10



W.E. Johnston, *Lawrence Berkeley Laboratory* -  
Network-based Remote Instrument and Experiment  
Control

R. Spiwoks, *CERN* - Discrete-Event Simulations

D. Hubbard, *CEA Saclay* - LHC Trigger Design

13



## Software Production

The set of lectures will address a number of general issues inherent in the production of large software systems as required for High-energy Physics experiments. Organisational, technical and human aspects will be discussed. Specific examples will be presented and demonstrated during practice sessions.

14

S. Smith, *Southampton University* - Modern Object-Oriented Software Development - with exercises

A. Khodabandeh, *CERN* - Software Process and Quality (Organisational aspects)- with exercises

V. Chaloupka, *Washington University* - Human Aspects of Computing in Large Physics Collaborations

T. Burnett, *Washington University* - Application of the STL to Reconstruction of High-energy Physics Data - with exercises

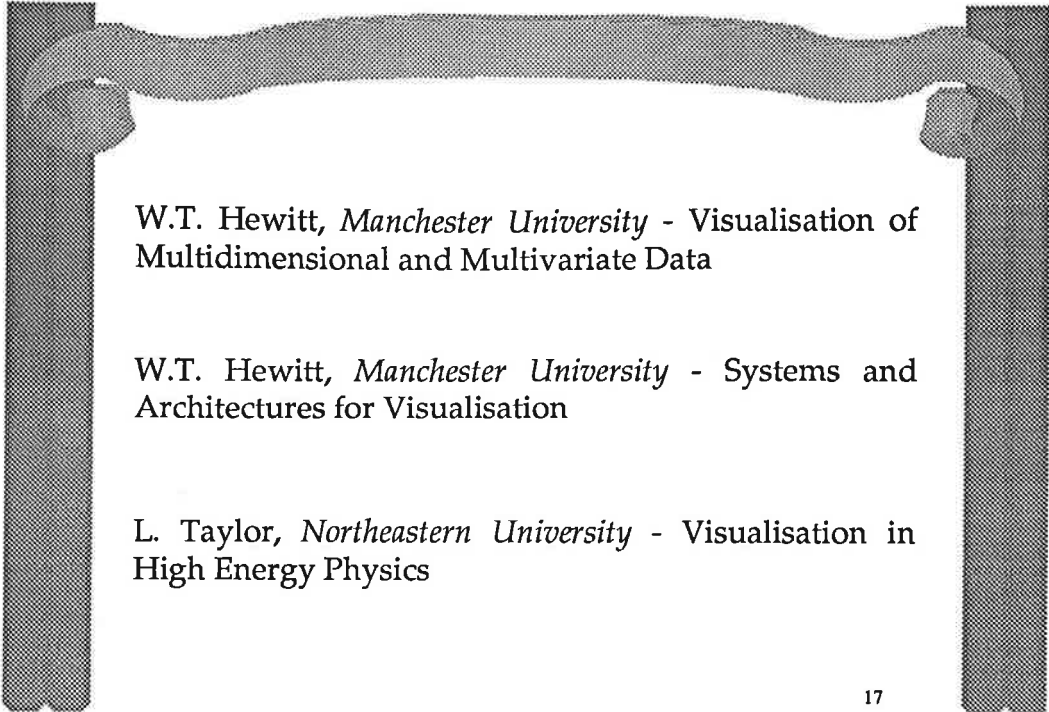
J. Allison, *Manchester University* - GEANT4 Experience

15

## Visualisation

The ability to display physics event and analysis data has long played an important role in the evaluation of data from high-energy physics experiments. The scale of modern experiments and the power of modern computers and software make this an ever more critical aspect of physics data analysis. This track will give an overview of the latest techniques available, and how they are applied in practice.

16



W.T. Hewitt, *Manchester University* - Visualisation of  
Multidimensional and Multivariate Data

W.T. Hewitt, *Manchester University* - Systems and  
Architectures for Visualisation

L. Taylor, *Northeastern University* - Visualisation in  
High Energy Physics