



ORGANISATION EUROPÉENNE POUR LA RECHERCHE NUCLÉAIRE

EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

Laboratoire Européen pour la Physique des Particules

European Laboratory for Particle Physics

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THE 2002 CERN SCHOOL OF COMPUTING

VICO EQUENSE, ITALY

15 September - 28 September, 2002

Bulletin No. 1

The 2002 CERN School of Computing is organised by CERN in collaboration with the Institute of Composite Materials and Biomaterials, National Research Council, Naples, Italy.

1. Date and place of the School

The twenty-fifth CERN School of Computing will be held at the Hotel Oriente, Vico Equense, Italy, from Sunday 15 September to Saturday 28 September 2002.

2. Participation

The School is open to postgraduate students and research workers with a few years' experience in elementary particle physics, in computing or in related fields. The number of participants will be of the order of 80, mostly from the CERN Member States or from laboratories closely associated with CERN. Applicants from countries that are not Member States of CERN will be considered subject to availability.

Personal contacts and informal discussions among the participants during leisure time are an important aspect of the School. For this reason, students are asked to note that they should not be accompanied by family members or friends.

3. Accommodation

Participants will be accommodated in the Hotel Oriente (<http://www.hoteloriente.it/>), 100 metres from the beach, overlooking the sea. All students participating at the School will be lodged in comfortable double rooms with private bathrooms.

4. Scientific programme

The School is based on the presentation of approximately 29 lectures and on 24 hours of related practical exercises on PCs or workstations.

11. Replacement

In all cases of withdrawal or cancellation, whether last-minute or otherwise, the choice of a replacement, if any, will lie entirely with the Advisory Committee and not with the laboratory concerned.

12. Advisory Committee

W. Carena	CERN, Geneva	
M. Delfino	CERN, Geneva	
R. Edgecock	RAL, Didcot	
F. Etienne	CPPM, Marseille	
F. Flückiger	CERN, Geneva	(Deputy School Director)
J. Franco-Turner	CERN, Geneva	(School Administrator)
F. Gagliardi	CERN, Geneva	(School Director)
R. Jacobsen	University of California, Berkeley	
A. Johnson	SLAC, Stanford	
R. Jones	CERN, Geneva	
J. Marco de Lucas	IFCA, Santander	
P. Martucci	CERN, Geneva	(Technical Manager)
P. McBride	FNAL, Batavia	
Y. Robert	ENS Lyon	
F. Ruggieri	INFN-CNAF, Bologna	(Chairman)
C. Vandoni	CERN, Geneva	

13. Local Organising Committee

M. Montanino IMCB-CNR, Naples

14. Lecturers

Predrag Buncic

Predrag Buncic obtained a degree in physics from Zagreb University in 1989. Then he worked on tracking algorithms for the NA35 experiment and obtained a master degree in particle physics from Belgrade University in 1994. In the period 1995-1999 he worked for the NA49 experiment on development of a persistent, object-oriented I/O system and data manager (DSPACK) designed to handle data volume on 100TB scale, and coordinated the NA49 computing efforts at CERN. At present he works for the Institute fuer Kernphysik, Frankfurt in the Alice experiment on the Alice production environment (AliEn). He is section leader of the database section in the Alice Offline Team.

Federico Carminati

Federico Carminati obtained an Italian doctor's degree in High Energy Physics at the University of Pavia in 1981. After working as an experimental physicist at CERN, Los Alamos and CalTech, he was hired at CERN where he has been responsible for the development and support of the CERN Program Library and the GEANT3 detector simulation MonteCarlo. From 1994 to 1998 he participated in the design of the Energy Amplifier under the guidance of Prof. C. Rubbia (1984 Nobel Physics Laureate) in the development of innovative MonteCarlo techniques for the simulation of accelerator driven fission machines, and of the related fuel cycle. In January 1998 he joined the ALICE collaboration at LHC assuming the leadership of the ALICE software and computing project. Since January 2001 he holds the position of Work Package Manager in the European DataGRID project. He is responsible for the

High Energy Physics Application Work Package whose aim is to deploy large scale distributed HEP applications using the GRID technology.

Robert Cowles

With more than 30 years of experience in computing and as the Computer Security Officer at SLAC, the lecturer can ground the more abstract discussions with practical, real-world examples. In addition to seminars in the US and Europe, he has taught regular classes on Internet and web security for the University of California and Hong Kong University. Education: BS Physics from University of Kansas, 1969; MS Computer Science from Cornell University, 1971.

Tiziana Ferrari

Tiziana Ferrari graduated in Computer Science at the University of Bologna in 1995 and obtained a Ph.D in Telecommunications Engineering at the University of Bologna in 1999 with a thesis on the support of Quality of Service in wide area networks. Member of the European Task Forces TF-ATM, TF-TANT and TF-NGN, from 1998 she participated as coordinator in the test program on differentiated services and QoS measurement. In 1998 she was appointed professor on Telecommunication Protocols at the University of Bologna (Diploma in Telecommunication Engineering).

Ian Foster

Dr. Ian Foster is Senior Scientist and Associate Director of the Mathematics and Computer Science Division at Argonne National Laboratory, Professor of Computer Science at the University of Chicago, and Senior Fellow in the Argonne/U.Chicago Computation Institute. He currently co-leads the Globus project with Dr. Carl Kesselman of USC/ISI as well as a number of other major Grid initiatives, including the DOE-funded Earth System Grid and the NSF-funded GriPhyN and GRIDS Center projects. He co-edited the book "The Grid: Blueprint for a New Computing Infrastructure".

Bob Jacobsen

Bob Jacobsen is an experimental high-energy physicist and a faculty member at the University of California, Berkeley. He's a member of the BaBar collaboration, where he led the effort to create the reconstruction software and the offline system. He has previously been a member of the ALEPH (LEP) and MarkII (SLC) collaborations. His original academic training was in computer engineering, and he worked in the computing industry before becoming a physicist.

Bob Jones

After studying computer science at university Bob joined CERN and has been working on online systems for the LEP and LHC experiments. Databases communication systems graphical user interfaces and the application of these technologies to data acquisition systems was the basis of his thesis. He is currently responsible for the control and configuration sub-system of the ATLAS data acquisition prototype project.

Carl Kesselman

Dr. Carl Kesselman is a Senior Project Leader at the University of Southern California's Information Sciences Institute and a Research Associate Professor of Computer Science, also at the University of Southern California. Prior to joining USC, Dr. Kesselman was a Member of the Beckman Institute and a Senior Research Fellow at the California Institute of Technology. He holds a Ph.D. in Computer Science from the University of California at Los Angeles. Dr. Kesselman's research interests are in high-performance distributed computing, or Grid Computing. He is the Co-leader of the Globus project, and along with Dr. Ian Foster, edited a widely referenced text on Grid computing.

Pascale Primet

Pascale Primet is an assistant professor in Computer Sciences. She has been giving lectures in Advanced Networks, Quality of Service and Operating System for more than ten years; member of

the INRIA Reso project. She is Manager of the Work Package Network (WP7) of the EU DataGRID project and scientific coordinator of the French Grid project E-TOILE.

Fons Rademakers

Fons Rademakers received a Ph.D. in particle physics from the University of Amsterdam. Since 1990 he is working on large-scale data analysis systems at CERN. He is one of the main authors of the PAW and ROOT data analysis frameworks and since July 2000 he works in the offline computing group of the ALICE collaboration where he is in charge of the framework development.

Paolo Tonella

Paolo Tonella received his laurea degree cum laude in Electronic Engineering from the University of Padua, Italy, in 1992, and his PhD degree in Software Engineering from the same University, in 1999, with the thesis "Code Analysis in Support to Software Maintenance". Since 1994 he has been a full time researcher of the Software Engineering group at IRST (Institute for Scientific and Technological Research), Trento, Italy. He participated in several industrial and European Community projects on software analysis and testing. He is now the technical person responsible for a project with the Alice, ATLAS and LHCb experiments at CERN on the automatic verification of coding standards and on the extraction of high level UML views from the code. In 2000-2001 he gave a course on Software Engineering at the University of Brescia. Now he teaches Software Analysis and Testing at the University of Trento. His current research interests include reverse engineering, object oriented programming, web applications and static code analysis.

15. Enquiries and correspondence

All enquiries and correspondence related to the School should be addressed to:

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