

Overview of the 2003 CERN School of Computing held in Krems an der Donau, Austria

Introduction

The 26th CERN School of Computing took place at the Donau University, Krems a.d. Donau, Austria from 24 August to 06 September. The School was organized in collaboration with the Institut für Hochenergiephysik (HEPHY) (Österreichische Akademie der Wissenschaften, Vienna and the Donau Universität, Krems a.d. Donau, Austria.

The School was opened in the presence of:

Mag. Wolfgang Derler, Deputy Mayor and Councillor for Cultural Affairs.

Dr. Johann Günther, Vice President, Head Department of Telecommunication, Information and Media, Donau University

Dr. Meinhard Regler, Deputy Director, HEPHY

Dr. Wolfgang von Räden, Division Leader, Information Technology, CERN

Dr. Rudi Frühwirth, HEPHY (Chairman of the Local Organising Committee).

Dr. François Flückiger, School Director, IT Division CERN.

The opening session was chaired by the School Director.

Pattie McBride, Advisory Committee member/Track Coordinator and Andreas Pfeiffer (Track Coordinator/Lecturer) attended for the whole period of the School. Heinz Stockinger, Track Coordinator/lecturer attended the second week.)

The School was directed by François Flückiger.

P. Martucci (AC member), IT-PS group, was the Technical Manager of the School and was assisted by Agustin Palacios-Laloj, IT Summer Student. They ensured a smooth running of the computing infrastructure before and during the School with excellent support from the Local Organizers' Technical team (Winni Mitaroff and Wolfgang Waltenberger, assisted by Gerald Richter who was also a student at the school).

Administration was managed by Jackie Franco-Turner, with invaluable support from Ingrid Bauer and Romana Figl from the Donau University. The administration of the School went extremely smoothly due mainly to the excellent preparatory work by the local organizing committee. Rudi Frühwirth, Chairman of the Local Organising Committee, is to be congratulated on his very hard work and efficient organization.

Students

There were 89 Applications.

11 cancelled due to lack of funds, 5 cancelled for unspecified reasons, 3 were refused due to incomplete application

There were 2 no-shows.

68 students attended. The 68 students were of 25 different nationalities from 39 different Institutes (22 students from CERN). (see table below).

First Name	Family Name	Nationality	Total Nat.	Institute	City	Country
Eric	Neilsen	American	1	Fermi National Accelerator Laboratory	Batavia	USA
Rene	Donner	Austrian	5	CERN	Geneva	Switzerland
Andreas	Wildauer	Austrian		Institut fuer Experimentalphysik	Innsbruck	Austria
Matthias	Fuegger	Austrian		Institut fuer Hochenergiephysik	Vienna	Austria
Gerald	Richter	Austrian		Institute for High Energy Physics	Vienna	Austria
Andreas	Salzburger	Austrian		University of Innsbruck	Innsbruck	Austria
Vandy	Berten	Belgian	1	Universite Libre de Bruxelles	Bruxelles	Belgium
Atila	Alves Neves	Portuguese	1	Instituto Superior Tecnico	Lisboa	Portugal
Matthew	Noy	British	2	Imperial College London	London	UK
Alasdair	Earl	British		University of Edinburgh	Edinburgh	UK
Mila	Katzarova	Bulgarian	1	Sofia University	Sofia	Bulgaria
Dehong	Zhang	Chinese	3	Fermi National Accelerator Laboratory	Batavia	USA
Xiaomei	LI	Chinese		China Institute of Atomic Energy	Beijing	P.R.China
Yuehong	Xie	Chinese		Institute of High Energy Physics	Beijing	P.R.China
Helena	Larsen	Danish	1	CERN	Geneva	Switzerland
Andi	Hektor	Estonian	1	NICPB		Estonia
Jukka	Nysten	Finnish	2	Helsinki Institute of Physics	University of Helsinki	Finland
Lauri	Wendland	Finnish		Helsinki Institute of Physics	University of Helsinki	Finland
Michel	Christaller	French	5	CERN	Geneva	Switzerland
Karim	Bernardet	French		C.P.P.M.	Marselle	France
Sophie	Lemaitre	French		CERN	Geneve	Switzerland
Christophe	Raber	French		Institut Supérieur d'Electronique de Paris	Paris	France
Frederic	Melot	French		Laboratory for Subatomic Physics and Cosmology	Grenoble	France
Helmut	Schmuecker	German	5	CERN	Geneva	Switzerland
Peter	Niessen	German		IIHE (ULB/VUB)	Brussels	Belgium
Bengt	Wessling	German		Institut fuer Experimentalphysik der Universitaet Hamburg	Hamburg	Germany
Damian	Bucher	German		Institut fuer Kernphysik, Universitaet Muenster	Münster	Germany
Joanna	Weng	German		Institute for Grid Computing and e-sciences (GES)	Eggenstein-Leopoldshafen	Germany
Theodota	Lagouri	Greek	1	Aristotle University of Thessaloniki	Thessaloniki	Greece
Miklos	Kozlovsky	Hungarian	3	CERN	Geneve	Switzerland
Judit	Novak	Hungarian		Eotvos Lorand University of Sciences	Budapest	Hungary
Tamas	Hauer	Hungarian		University of West England	Bristol	UK
Francesco	Minafra	Italian	14	INFN, Dipartimento di Fisica dell'Università di Bari	Bari	Italy
Alessandro	Di Mattia	Italian		INFN - Sezione di Roma 1	Roma	Italy
Stefano	Piano	Italian		Università degli studi di Trieste	Trieste	Italy
Alberto	Forti	Italian		Università degli studi di Udine	Udine	Italy
Andrea	Ceccanti	Italian		Università di Bologna	Bologna	Italy
Ciro	Donalek	Italian		University Federico II di Napoli	Napoli	Italy
Tommaso	Coviello	Italian		University of Bari - INFN Bari	Bari	Italy

Laura	Bocchi	Italian		University of Bologna	Bologna	Italy
Giorgia	Lodi	Italian		University of Bologna	Bologna	Italy
Massimo	Camarda	Italian		Dipartimento di Fisica e Astronomia	Catania	Italy
Andrea	Causarano	Italian		I.N.F.N.	Frascati (RM)	Italy
Sabrina	Argentati	Italian		I.N.F.N.	Frascati - Rome	Italy
Mirko	Corosu	Italian		INFN	Genova	Italy
Alberto	Amato	Italian		Politecnico di Bari	Bari	Italy
Farida	Fassi	Maroccan	1	IFIC-Instituto de Física Corpuscular	Valencia	Spain
Kamran	Munir	Pakistani	1	NUST Institute of Information Technology	Rawalpindi	Pakistan
Piotr	Nyczyk	Polish	3	ACK Cyfronet AGH	Krakow	Poland
Jacek	Wojcieszuk	Polish		CERN	Geneva	Switzerland
Monika	Puchalska	Polish		Institute of Nuclear Physics	Krakow	Poland
Rui Pedro	da Silva Sampaio	Portuguese	3	Agência de Inovacio	Oeiras	Portugal
Nuno	Barros	Portuguese		FCUL (Faculty of Science of University of Lisbon)	Lisbon	Portugal
Alexandre	Sousa	Portuguese		Tufts University	Medford,	USA
Ovidiu	Achim	Romanian	1	CERN	Genève	Switzerland
Andrei	Soukharev	Russian	2	Budker Institute of Nuclear Physics	Novosibirsk	Russia
Kirill	Prokofiev	Russian		Physik-Institute Universität Zürich	Zurich	Switzerland
Ildefons	Magrans de Abril	Spanish	6	CERN	Geneva	Switzerland
Hector	Sanchez SanMartin	Spanish		CERN	Geneva	Switzerland
Hugo	Ruiz	Spanish		CERN	Geneve	Switzerland
Igor	Roman Marino	Spanish		CERN	Genève	Switzerland
Francisco	Martinez	Spanish		Institut de Física d'Altes Energies	Bellaterra (Cerdanyola del Valles)	Spain
Manuel	Diaz-Gomez	Spanish		Universite de Geneve	Geneva	Switzerland
Henrik	Tydesjo	Swedish	1	Lund University	Lund	Sweden
Meng-Hang	Ho	Taiwanese	4	Computing Centre, Academia Sinica	Nankang, Taipei	Taiwan, ROC
Hung-Chun	Lee	Taiwanese		Computing Centre, Academia Sinica	Nankang, Taipei	Taiwan, ROC
Zi-Hao (Claude)	Wang	Taiwanese		Computing Centre, Academia Sinica	Nankang, Taipei	Taiwan, ROC
Chih-Chiang	Chang	Taiwanese		Computing Centre, Academia Sinica	Nankang, Taipei	Taiwan, ROC

For the second year running, an examination was offered at the end of school. 60 students registered for the exam and 53 passed.

Lectures and Exercises

The programme consisted of 30 hours of lectures and 22 hands-on exercises. Three of the lectures and two of the exercises were optional. Two evening lectures and two presentations were given.

Origin of lecturers	
CERN	5
Europe	7, of whom 2 were evening lecturers
Overseas	2

Scientific Programme 2003 V.9

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 Programme maps

Sun. 24. Aug.	Mon. 25. Aug.	Tue. 26. Aug.	Wed. 27. Aug.	Thu. 28. Aug.	Fri. 29. Aug.	Sat. 30. Aug.
	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
08.30	Transport from hotel	Transport from hotel	Transport from hotel	Transport from hotel	Transport from hotel	Transport from hotel
09.00 - 09.55	Opening Ceremony	ST-SA-L-1 System Analysis P. Tonella 3	AL-ES-L-1 Introduction N. Neumeister 7	ST-SE-L-1 Software Engineering B. Jacobsen 10	AL-ES-L-3 Physics Reconstruction N. Neumeister 14	ST-ICE-1 Interactive Computing Andreas Pfeiffer 9
10.05 - 11.00	Opening Ceremony Cont	ST-SA-L-2 System Analysis P. Tonella 4	AL-ES-L-2 Event Reconstruction T. Todorov 7	ST-SE-L-2 Software Engineering B. Jacobsen 11	AL-ES-L-4 Track Reconstruction T. Todorov 15	ST-ICE-2 Interactive Computing Andreas Pfeiffer 10
11.05	Coffee	Coffee	Coffee	Coffee	Coffee	Coffee
11.30 - 12.25	ST-TT-L-1 Tools and Techniques B. Jacobsen 1	ST-TT-L-2 Tools and Techniques B. Jacobsen 5	ST-IC-L-1 Interactive Computing Andreas Pfeiffer 9	ST-IC-L-2 Interactive Computing Andreas Pfeiffer 12	ST-IC-L-3 Interactive Computing Andreas Pfeiffer 16	ST-SE-L-3 ST Track Wrap-up B. Jacobsen 18
12.30	Lunch at Uni.	Lunch at Uni.	Lunch at Uni.	Lunch at Uni.	Lunch at Uni.	Lunch at Uni.
13.45 - 14.40	ST-TT-E-1 Tools and Techniques B. Jacobsen 1	ST-TT-E-3 Tools and Techniques B. Jacobsen 3	Excursion 1330 2 buses Donau University St. Pöften, Reception at Landhaus, visit to Landesmuseum, shopping	ST-AS-E-1 System Analysis P. Tonella 8	AL-T1-E-1 H.L.T exercises N. Neumeister T. Todorov 7	Free Time
14.50 - 15.45	ST-TT-E-2 Tools and Techniques B. Jacobsen 2	ST-TT-E-4 Tools and Techniques B. Jacobsen 4		ST-AS-E-2 System Analysis P. Tonella 6	AL-T1-E-2 H.L.T exercises N. Neumeister T. Todorov 8	
15.50	Coffee	Coffee		Coffee	Coffee	
16.15 - 17.10	GT-NQ-L1 (optional) Network QoS Basics F. Fluckiger 2	ST-SA-L-3 System Analysis P. Tonella 6	(74)	AL-VR-L1 (optional) Vertex Reconstruction M. Regler 13	AL-VR-L2 (optional) Vertex Reconstruction M. Regler 16	
17.30	ETM Presentation	Transport to hotel		Presentation Visualisation of Fuzzy Sources P. Kotavec 15	Transport to hotel	
18.00	Cocktail sponsored by ETM*	Free Time		Free Time	Free Time	
20.00	19.30 Transport to Restaurant 20.00 Dinner, Restaurant Klinglhuber	Dinner, Restaurant Klinglhuber	Dinner Restaurant Klinglhuber	19.30 Heurigen Dinner Boch	Dinner, Restaurant Klinglhuber	Dinner, Restaurant Klinglhuber
				22.30 Bus to Hotel	Quantum Information Processing: a Physical & Technical Challenge in the 21st Century. D. Jachs	

25+ 30 min
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 Heeler Sanchez but Saturday
 1330 Friday 15.00 de Conf call di Natick?
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Bus directly for St. Pöften -> Heurigen Zehaus.

Friday Tuesday group photo
 12:30

Sun. 31. Aug.		Mon. 01 Sept.	Tue. 02 Sept.	Wed. 03 Sept.	Thu. 04 Sept.	Fri. 05 Sept.	Sat. 06 Sept.
Breakfast		Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
All Day Excursion Trip to Vienna	08.30	Transport from hotel	Transport from hotel	Transport from hotel	Transport from hotel	Transport from hotel	Departure
	09.00	GT-GT-L1 Grid Technologies E. Laure H. Stockinger K. Stockinger	GT-GT-L4 Grid Technologies E. Laure H. Stockinger K. Stockinger	AL-AM-L-1 Adaptive methods, reconstruction A. Strandlie	AL-AM-L-2 Adaptive methods, reconstruction A. Strandlie	GT-FG-L1 Open Grid Services, Status, Future C. Kesselman	
	09.55						
	10.05	GT-GT-L2 Grid Technologies E. Laure H. Stockinger K. Stockinger	GT-GT-L5 Grid Technologies E. Laure H. Stockinger K. Stockinger	GT-GT-E5 Grid Exercises E. Laure H. Stockinger K. Stockinger	AL-AM-E1 Adaptive methods, reconstruction A. Strandlie	GT-FG-L2 Open Grid Services, Status, Future C. Kesselman	
	11.00						
	11.05	Coffee	Coffee	Coffee	Coffee	Coffee	
	11.30	GT-GT-L3 Grid Technologies E. Laure H. Stockinger K. Stockinger	GT-GT-L6 Grid Technologies E. Laure H. Stockinger K. Stockinger	GT-GT-E6 Grid Exercises E. Laure H. Stockinger K. Stockinger	AL-AM-E2 Adaptive methods, reconstruction A. Strandlie	GT-WU-L1 Grid Track Wrap-up E. Laure H. Stockinger K. Stockinger	
	12.25						
lunch included in excursion	12.30	Lunch at Uni. <i>deadline</i>	Lunch at Uni.	Lunch package. <i>dep 12.30+</i>	Lunch at Uni.	Lunch at Uni.	
	13.45	GT-GT-E1 Grid Exercises E. Laure H. Stockinger K. Stockinger	GT-GT-E3 Grid Exercises E. Laure H. Stockinger K. Stockinger	Excursion 13.00-15.45 Boat trip to Melk	GT-MP-E1 Grid Mini-project E. Laure H. Stockinger K. Stockinger	GT-WU-L2 Grid Track Wrap-up E. Laure H. Stockinger K. Stockinger	
	14.40						
	14.50	GT-GT-E2 Grid Exercises E. Laure H. Stockinger K. Stockinger	GT-GT-E4 Grid Exercises E. Laure H. Stockinger K. Stockinger	16.15-17.45 visit of abbey	GT-MP-E2 Grid Mini-project E. Laure H. Stockinger K. Stockinger	School Wrap-up	
	15.45						
	15.50	Coffee	Coffee	18.00 bus to Krems	Coffee	Coffee	
	16.15	GT-NP-E1 (optional) Network Performance E. Laure H. Stockinger K. Stockinger	GT-NP-E2 (optional) Network Performance E. Laure H. Stockinger K. Stockinger		Optional Examination	16.30 and 16.50 Transport back to hotel	
	17.10						
	17.25	Transport back to hotel	Transport back to hotel		Transport back to hotel		
	19.30	Free Time	Free Time		Free Time	Free Time	
Dinner and Jazz	20.00	Dinner, Restaurant Klinglhuber	Dinner, Restaurant Klinglhuber	Dinner in at Heuriger Zöiner	Dinner, Restaurant Klinglhuber	18.30 and 18.40 buses to Gottweig 19.00 Cocktail 19.30 Dinner and Dancing	
		Evening Lecture Mobility of our Society due to Information and Communication Technology J. Günther					

9.00
Hotel HCF

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15.45
16.45
17.45
and 17.30

bot ball 18.15
19.30

Zudring Pong ??

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