CHEP04 Programme Preparation

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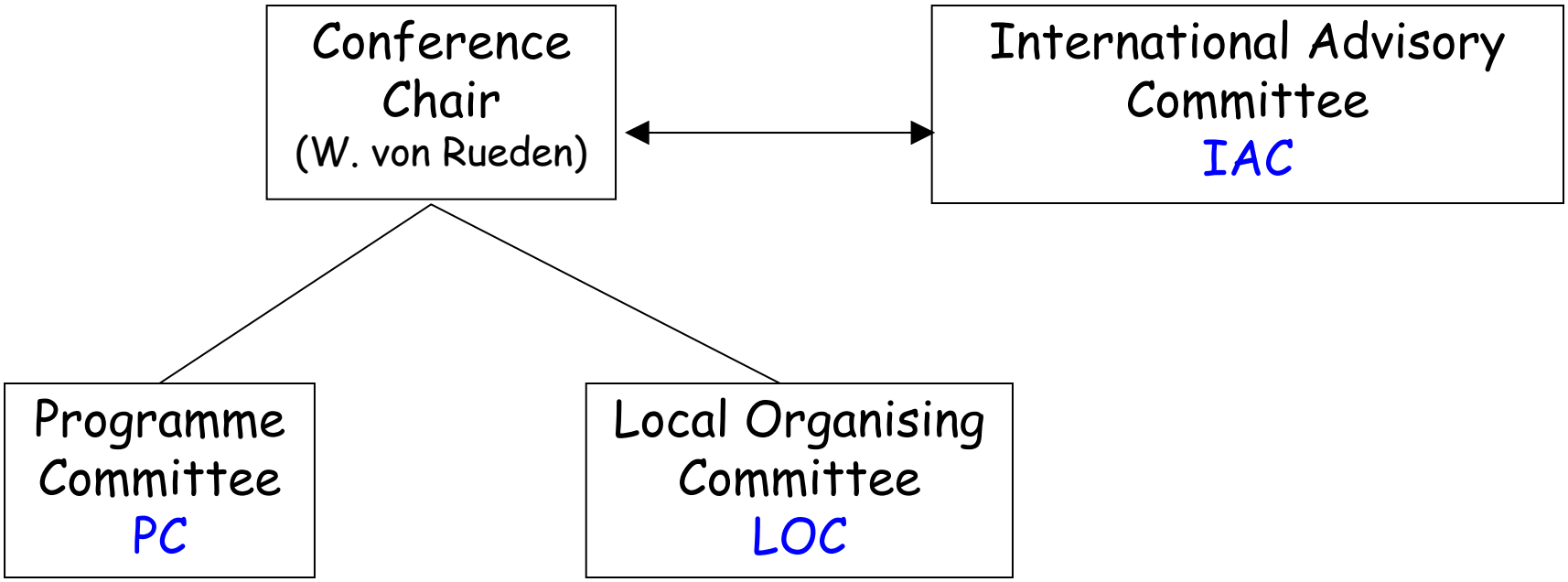
CHEP04 Organisation



PC Responsibilities

- Definition of overall programme
  - Placing sessions in conference schedule
  - Solicit invited plenary talks (and track talks if appropriate)
  - Organise session chairs (plenary & parallel)
  - Organise summary talks of parallel tracks
- Send out call for contributions
- Manage receipt of abstracts, talks, posters, papers
- Make selection of oral/poster presentations
- Prepare instructions to authors/speakers
- Send notifications to authors/speakers

LOC Responsibilities

- Overall organization of conference
- Budget management and financial control
- Venue
- Technical equipment
- Conference Secretariat, Website, Poster and Conference Bulletins
- Registration procedure including fees
- Conference guide
- Conference Proceedings
- Poster Session Management
- Accommodation, Excursions
- Reception, Conference dinner

IAC Responsibilities

- The role of the IAC is to give advice to the conference chair on all major conference issues, in particular:
  - the definition of the scope of the conference and the structure of the programme
  - the selection of topics and speakers for the plenary session
  - the selection of subjects for the different programme tracks and the choice of coordinators to lead them
  - the dissemination of material promoting the conference in their respective community
- Members of the IAC are chosen to be representative of the worldwide HEP community.

Conference Chair

- Chairs the International Advisory Committee
  - standing invitation to the Programme Committee (PC) and the Local Organising Committee (LOC)
- Channels communications between LOC and PC on the one hand and the International Advisory Committee on the other hand
- Liaises with CERN management and other relevant bodies

CHEP04 Goals

after CHEP03 feedback

- Theme : “from high-level trigger to analysis – data flow and technologies”
- Keep scope manageable
  - Online – exclude DAQ hardware, FLT, and detector controls
  - Grid – focus on grid operation and applications
- Fewer parallel sessions
- Bigger emphasis on posters
  - cover all selected contributions
- Plenary talks summarising major themes not covered in detail in parallel tracks
- Close contacts with Openlab Project (i.e. IBM, HP, Enterasys, Intel, ORACLE) which sponsors CHEP04 – make tie in with guest speakers & industrial exhibition

CHEP04 Draft Programme Structure

CHEP'04 INTERLAKEN

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
8.30 - 09.15		Registration	Plenary 4	Plenary 8	Plenary 12	Summary Track 1
		9.00 Opening Ceremony				Summary Track 2
9.15 - 10.00		9.45 Plenary 1	Plenary 5	Plenary 9	Plenary 13	Summary Track 3
						Summary Track 4
10.00 - 11.00		*Coffee*	*Poster (Coffee)*	*Poster (Coffee)*	*Poster (Coffee)*	*Coffee*
						Summary Track 5
11.00 - 11.45		Plenary 2	Plenary 6	Plenary 10	Plenary 14	Summary Track 6
						Conference Summary Talk
11.45 - 12.30		Plenary 3	Plenary 7	Plenary 11	Plenary 15	
12.30 - 14.00		*lunch*		*lunch*	*lunch*	
14.00 - 16.00	Registration	Parallel sessions	*Excursion*	Parallel sessions	Parallel sessions	
16.00 - 16.30		*Coffee*		*Coffee*	*Coffee*	
16.30 - 18.10		Parallel sessions		Parallel sessions	Parallel sessions	
20.00	*Free for dinner*	*Free for dinner*	*Free for dinner*	Conference Banquet	*Free for dinner*	

Industrial Exhibition (Monday 14.00 - 18.10)

Industrial Exhibition (Tuesday 8.30 - 12.30)

Industrial Exhibition (Wednesday 8.30 - 16.30)

Industrial Exhibition (Thursday 8.30 - 18.10)

Programme Contents - IAC Input

- Need good dose of vision as opposed to ‘all nuts & bolts’
  - forward looking plans
  - provoke discussion
- Emphasize grid deployment and operation
  - HEP will have to work out a service to handle grid management, operation and resource scheduling
- Give prominent role to networking (6th track)
  - great rate of progress, emergence of new technologies and the beginning of a major cycle of new ideas

Programme Content - IAC Input

- Perfect timing for exposure and debate around the LHC computing models
- Event selection is an exercise in data mining not unlike that in other disciplines
- Interoperability between grid implementations
  - US and EU
- Plenary - Some talks from other sciences about how they do things might be more valuable than those from industry
  - pursue speakers from outside HEP
- Plenary - Future of computing from perspective of larger national computing organisation
  - view HEP position in a wider landscape

Plenary – guest speakers status

Status of guest speakers maintained on
http://chep2004.web.cern.ch/chep2004/Internal/Invited-Speakers.doc

Already declined :

- Gordon Moore/ Intel
- Jim Gray/Microsoft

WvR to follow up during visit to USA in April

Plenary – Welcome and Banquet

Welcome – mayor?

- Short welcome by local mayor?
- Introduction to conference - WvR
  - programme theme
  - CERN 50th anniversary – banquet
- Logistics – Alan

Banquet

- DG speech
- World Economic Forum - Jose Figueras

Plenary – Data Mining Session

Monday ?

- Data mining and indexing in Google Urs Holzle
- Data mining on running experiments - ?
- Data mining in biotechnology (astroparticle physics,..?)

Plenary – LHC (LCG,EGEE)

Tuesday ?

- LCG overview talk – Les Robertson
- Grid technology talk – (Miron?, Frederic?)
- Grid deployment and service (Ian Bird)
- LHC Computing Models and Data Challenges

Plenary – Technology Tracking

Wednesday ?

- Future of High Speed LANs -Roese (Enterasys)
- Processors - Pat Gelsinger Intel/CTO
- Autonomic Computing (IceCube) - Jai Menon (IBM)
- Impact of e-science initiatives - Ken Peach / Neil Geddes (RAL/PPARC)

NB guest speakers – banquet day

Plenary – HEP Computing

Thursday

- Online - Overview on trigger technologies
- Future of computing and HEP role in it; National Computer Centre perspective - Anders Ynnerman?
- WAN – global network status, what services, digital divide - Peter Clarke?
- Fabrics - Overview on Farm management (automated, real-time, systems are on-line)

Plenary – other suggestions

- EU Programmes in FP6/FP7 Mariano Gago/LIP?
- Computing in other sciences Biotechnology - Albert Jacard
- …

http://chep2004.web.cern.ch/chep2004/Internal/Invited-Speakers.doc

* WvR to follow up during visit to USA in April

Parallel Sessions – time per talk

- 6 tracks in 5 sessions
- Finish ~18.00

Time/Talk	Before Coffee	After Coffee	Talks/day in session	Total talks per session	Total // talks in conference
20' : 15' + 5'	6	5	11	33	165
30' : 25' + 5'	4	3	7	21	105

Placing 6 Tracks in 5 Parallel Sessions – 2 examples

Room	Tuesday	Wednesday	Thursday
Congress room (600)	T1	T1	T1
Theatre room (400)	T2	T2	T2
Ballroom (300)	T3	T3	T3
Brünig (100)	T4	T4	T5
Harder (70)	T5	T6	T6

- No realistic possibility to split larger rooms
- Possibility of 6th room - Grimsel (50)
- Final allocation depends on number of talks / track

Poster Sessions

- 3 sessions of 1 hour in morning
- 2 tracks per session
  - authors have to attend only 1 session
- Budgeted for 50 panels
  - max 100 posters on any day
- If <100 posters in total can be mounted and left for duration of conference

Track 1 Online Computing

- CPU farms for high-level triggering
- Farm configuration
- Run Control
- Describing and managing configuration data and conditions databases
- Online software frameworks and tools

Track 2 Event Processing

- Event simulation and reconstruction
- Physics analysis
- Event visualisation and data presentation
- Toolkits for simulation and analysis
- Event data models
- Detector geometry models
- Specialized algorithms for high-level triggering and event processing

Track 3 Core Software

- Domain specific software components
  - persistency, interactivity, scripting, graphics, ..
  - foundation and utility libraries, math libraries,..
  - component models, object dictionaries
  - use of 3rd party software components (open source and commercial)
- Programming techniques and development tools
  - Configuration management; software build, release and distribution tools
  - Software testing, quality assurance
  - Information systems; documentation

Track 4 Distributed Computing

- studies of data organization and analysis strategies
- distribution and storage of all types of data (raw, simulated, calibration, etc.)
- event selection and data mining
- exploitation of the computing centres and fabrics
- the development of the distributed computing models of experiments
- real experience in prototypes and production systems; data challenges; impact on use/management of regional computing centres

Track 5 Computer Fabrics

- architectures and technologies
- integral systems (cpu/storage) and life-cycle management
- functionality and operation of regional centres
- global usage and management of resources
- grid management, operation and resource scheduling – developing a grid service
- desktop and mobile computing
- parallel computing

Track 6 Wide Area Networking

- global network status and outlook
- advanced technologies and their use in applications
- HENP networks and their relation to future grid systems
- the digital divide and issues of access, readiness and cost
- collaborative systems, progress in technologies and applications

Track Coordinator Responsibilities

- Process abstracts
  - Accept/Reject
  - Oral/poster
  - Assign Track
- Solicit contributions if appropriate
- Schedule talks in programme
- Organise chairing of oral/poster sessions
- Organise track summary talk

Action List

- Now - feedback on plenary talks, scope of tracks (TCs)
- End April – start to process abstracts (TCs)
- End May – finish to process abstracts (TCs)
  - TC proposes Oral/Poster/Reject (+ Track #)
- Organise next PC meeting end May (JH)
  - finalise programme – fine tune/ horse trade (PC)
  - finalise programme/schedule for tracks and parallel sessions
  - finalise programme/schedule for posters
  - finalise guidelines for talks/papers (JH/AA/NK)
  - present web interface for talk/paper submission (HS)
- End May/beginning of June
  - notify authors (TC)
- August final programme and abstract brochure to printer (JH/AA/NK)