

## **ABSTRACT**

The 3rd Workshop on Accelerator Operation (WAO 2001) followed earlier workshops in 1996 and 1998. Most topics relevant for the efficient and effective operation of accelerators were covered. These included the tools and utilities necessary in the control rooms; the organization of accelerator operation (process monitoring, shift work, stress); the monitoring of beam quality; safety issues and standards; and questions particularly relevant for superconducting accelerators, in particular cryogenics.



## PREFACE

The Workshop, held in Villars, Switzerland from 28 January to 2 February 2001, was the third in a series on Accelerator Operations. The previous two were both held in North America, the first at TJNAF, Newport News, Virginia, USA in June 1996 and the second at TRIUMF, Vancouver, British Columbia, Canada in May 1998. Some 100 participants from around the world were in Villars.

The organization of the workshop was undertaken from CERN by two largely independent committees, composed as follows.

### Local Organizing Committee

- S. Baird (CERN) (Chairman)
- B. Allardyce (CERN)
- R. Bailey (CERN)
- J. Boillot (CERN)
- D. Dagan (CERN)
- T. Kehrer (CERN)
- M. Lindroos (CERN)

### Programme Committee

- R. Bailey (CERN) (Chairman)
- S. Baird (CERN)
- R. Bloemhard (TRIUMF)
- E. Karantzoulis (ELETTRA)
- T. Katoh (KEK)
- R. Lauzé (TJNAF)
- M. Stanek (SLAC)
- E. Takada (NIRS)

The programme was organized in eight half-day sessions, as shown below. There was also an informal poster session running throughout the workshop.

### Workshop programme

Session	Chairman
1. What's required in today's control rooms for efficient and effective operation?	Ron Lauzé TJNAF, USA
2. Tools and Utilities	Eiichi Takada NIRS, Japan
3. How should accelerator operations be organized?	Rick Bloemhard TRIUMF, Canada
4. How should we monitor beam quality?	Emanuel Karantzoulis ELETTRA, Italy
5. How should we handle safety?	Ghislain Roy CERN, Switzerland
6. What is so special about running a superconducting machine?	Karel Cornelis CERN, Switzerland
7. Reserve	Roger Bailey CERN, Switzerland
8. Summary talks	Roger Bailey CERN, Switzerland

The first six sessions targeted specific topics, some organizational, some technical. Each session consisted of scheduled talks, with at least a third of the time spent on discussion.

The reserve session was devoted to hot issues that came up through the workshop and were grouped into three main areas:

- The Global Accelerator Network (presented and animated by Steve Peggs, BNL)
- Problems of stress and how to get organized to minimize them
- What should an operations group be responsible for?

The summary session consisted of five presentations, where the session chairmen distilled the material presented and discussed in their sessions. Because of a significant overlap between the talks in the first two sessions, for the purposes of the summary they were grouped together into one.

Two invited speakers completed the programme. Steve Myers from CERN gave the opening speech entitled 'Accelerator Operations: the heart (and soul) of a CERN accelerator division', and Christine Stewart from the British Airports Authority gave an invited talk on the operation of Heathrow Airport. I thank them both for their interesting and entertaining contributions.

I would also like to thank everyone involved in setting up and executing the workshop programme. This includes all members of the Programme Committee, and the session chairmen. A workshop organized like this sinks or floats by the chairmen; they are responsible for the details of their session, for the running of it, and for producing and presenting a summary. They all did a great job.

For the proceedings, thanks to all speakers for submitting their papers at or shortly after the workshop. This has allowed us to get the ball rolling for publication very soon after the workshop was held. In this respect I would like to give special thanks to Tjitske Kehrer for all she has done in following the programme and pulling everything together for the proceedings; her help has been invaluable.

Finally, a suggestion was made at the workshop to set up a Programme Advisory Committee to help in organization of future workshops. This would provide continuity of the topics discussed in this series, and such a body would be an invaluable help to future organizers. I fully support this idea.

Roger Bailey  
Chairman of the Programme Committee