

ACCELERATOR SEMINAR

Report from SRF2013: The SRF World Today

Charlie Reece, et al.
SRF Institute, Jefferson Lab

The 16th International Conference on RF superconductivity was held in Paris, Sept. 23-27. RF superconductivity is now the key technology of many accelerators for particle physics, nuclear physics and, increasingly, light sources. SRF 2013 covered the latest advances in the science, technology, and applications of superconducting RF. The program consisted of 62 invited review talks, ~350 contributed posters and three “hot-topic” discussion sessions. Several new technical developments were reported which offer even brighter prospects for beneficial SRF applications to accelerators.

We will summarize the conference along four themes:

1. Status of SRF-based accelerator projects in the world – scale and quality in comparison with CEBAF, esp. 12 GeV. (John Mammosser)
2. SRF Cavity processing techniques – the latest standard and the emerging. (Ari Palczewski)
3. SRF non-bulk materials – what is new and promising? (Anne-Marie Valente-Feliciano)
4. Nb high-Q pursuits – what is new, what is the best seen, what understanding/control is needed yet? (Pashupati Dhakal)

Thursday, October 17, 2013
11:00 a.m.
CEBAF Center, Room F113