European SCRF Forum

European Superconducting Radio-Frequency Forum

A brief summary of the Kick-off Meeting
April 7/8, 2005
DESY (Karsten Wurr, see XFEL website)

Very compact version for SRF workshop 2005 (Michael Peiniger)
Context and Motivations

- At DESY the TESLA collaboration has built a 1 GeV SCRF linac with ~ 40 cavities.
- Asia (in Japan) and US are planning test facilities of similar dimensions.
- Europa is preparing the construction of a XFEL, using a ~ 25 GeV SCRF drive beam with ~ 1000 cavities. Construction is to start in 2007.
- The international particle physics community has decided to build the International Linear Collider (ILC) based on the TESLA/SRF technology. This project comprises > 20,000 cavities. Construction could start ~ 2010.

How to involve industry in an early stage?
Context

- SRF demonstrated technology
- Growing international scientific and political support (MoU for European XFEL and Global Design Initiative for an ILC)
- Future perspectives of superconducting RF linear accelerators
  - European XFEL [0.9 B€]
  - International Linear Collider (ILC) [ >3 B€]
  - and many more projects of differing size [x B€]

Motivations

- Substantial industrial interest in this technology in Europe, Asia and USA
- Well organised co-operation between science & industry in Japan (Linear Collider Forum of Japan)
- Strengthen know-how exchange between science and industry
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>Dec 2004</td>
<td>Idea for a European SCRF Forum</td>
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<tr>
<td>Jan 2005</td>
<td>Invitations to ~ 120 companies, labs, agencies</td>
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<td>April 2005</td>
<td>Kick-off meeting</td>
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<td></td>
<td>100 participants from</td>
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<td>40 companies, labs and agencies out of 9 countries</td>
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European SCRF Forum – 3. Aims & Tasks

**Discussed Tasks of the Forum**

- Create a **European industrial base** (esp. for the European XFEL and the future International Linear Collider)
- Provide a **point of contact** between
  - **European** industry active and interested in all aspects of SC RF accelerators
  - **European** accelerator laboratories, scientists and engineers
  - the **European Union** and its member countries
  - accelerator laboratories in **Asia** and the **US**
- Strengthen the **discussion between science, industry and politics**
- Develop ways of co-operation and **knowledge transfer** between the partners
- Provide all partners with a regular up-date of the project developments (esp. smaller ones and from other regions), e.g. through seminars
- Open information channels which single partners have no access to (like foreign administrations) and guarantee a **transparent view** on the competitive situation concerning the **ILC in the different world regions**
- Make rules **transparent for administration** of projects and tendering
Constitutional Group

- Christian Arnault (LAL, FR)
- Mike Dykes (ASTEC, UK)
- Carlo Pagani (INFN, IT)
- Javier Romero Ruiz (CDTI, ES)
- Dieter Trines (DESY, DE)
- Giorgio Corniani (Zanon, IT)
- Kurt Ebbinghaus (ad personam)
- Lluís Miralles (Cells, ES)
- Michael Peiniger (ACCEL, DE)
- Luigi Rebuffi (Thales, FR)
- Pieter van Otterloo (Dutch Scientific, NL)
- David Wilcox (HPRF, UK)

- Karsten Wurr (DESY, DE) Secretary

5 Labs / Agencies
7 Industry
## Schedule

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<tr>
<td>April 27, 2005</td>
<td>1. Meeting, Constitutional Group</td>
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<td>June 7, 2005</td>
<td>2. Meeting, Constitutional Group</td>
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<tr>
<td>Autumn, 2005</td>
<td>Foundation Meeting</td>
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