



„Linear Collider Forum of Europe“
- **short summary for the SRF workshop 2005**

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



European SCRF Forum - 2. Kick-off Meeting



- Dec 2004 Idea for a European SCRF Forum
- Jan 2005 Invitations to ~ 120 companies, labs, agencies
- April 2005 Kick-off meeting
100 participants from
40 companies, labs and agencies out of
9 countries

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)
- 5 Labs / Agencies
-
- 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)
- 7 Industry
-
- Karsten Wurr (DESY, DE)
- Secretary



Schedule

April 27, 2005

1. Meeting, Constitutional Group

June 7, 2005

2. Meeting, Constitutional Group

Autumn, 2005

Foundation Meeting
European SCRF Forum