

# Some SCRF Highlights from Europe

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**Global Design Effort** 

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- Highlights except for
  - XFEL Linac
    - Setting up a cold linac collaboration
    - Distribution of workload, knowledge, money... amongst several partners
  - Module 'Crash' Tests
    - Demonstrate compliance with high pressure vessel codes etc.
    - Understand recovery options
    - Ongoing
      - could try to summarize for Wednesday
  - Nine-cell 'standard' results
    - later today

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# Overview

- Industrial EP
  - Two companies wanted to set up infrastructure
    - ACCEL and Henkel
      - Henkel has done already many single-cells
    - Horizontal sytems

#### First tests on rough EP process

- After EP rinse cavity with water
- Mount transport flanges
- Transport with water to DESY
- Furnace treatment etc.
- Niobium vendor qualification
  - Plansee is qualified
- Large-grain material
  - Electropolished nine-cell shows very good results
- Fast Argon baking
  - Very good results at Saclay
  - Confirmed with simpler setup at DESY









## Open Bake in Ar-atmosphere: set-up



Detlef Reschke Q(E)-curves at 2K



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## 1DE2: Open Bake in Ar-atmosphere

- Goal: Realize simple 120C-bake procedure for open cavity

(cavity not assembled; no cavity vacuum necessary)



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- Cavity work outside the ,standard' processing is still ongoing
- Qualification of vendors
  - Plansee
- Training of companies
  - EP process
- Cost reduction
  - e.g. simplifying procedures like fast Argon bake
- Alternatives for ILC
  - Large-grain niobium is very attractive