

Welcome



- Our June meeting:
 - ICFA statement, plans for the International Develop Team (IDT) – neither mandate nor composition final at that time
 - Bilateral agreements KEK – individual European Lab or FAs (example CERN-KEK) for IDT work
 - Accelerator plans and ideas presented (relatively clear how to move forwards wrt to European Planning (EJADE report) – some examples were shown)
- We did not have enough time to discuss the physics and detector activities and our view of future priorities in that area. In particular the organisation of the Higgs factory physics and detector support at CERN was discussed and several questions asked.
 - However, also a feeling that physics & detector activities would gain less from “regional” structuring than accelerator contributions

News



Updates:

- The mandate of the “International Development Team” (IDT) was finally approved on 2.8: https://icfa.fnal.gov/wp-content/uploads/ICFA_release_of_ILC_IDT_Proposal.pdf
- The members of the team took longer to become public: https://icfa.fnal.gov/wp-content/uploads/ICFA_IDT_Structure.pdf
- We had hoped that the situation and organisation of CERN’s Higgs factory activities would be clearer - as we discussed back in June. Still being shaped.
- In the Plenary ECFA meeting in July, ECFA chair Jorgen D’Hondt touched on ECFA’s role ([from page 10 onwards: link](#)). See also thoughts about detector R&D roadmap panel in his slides.

Since June several developments Next slides

ICFA

ILC International Development Team

Executive Board

Americas Liaison Andrew Lankford (UC Irvine)
Working Group 2 Chair Shinichiro Michizono (KEK)
Working Group 3 Chair Hitoshi Murayama (UC Berkeley/U. Tokyo)
Executive Board Chair and Working Group 1 Chair Tatsuya Nakada (EPFL)
KEK Liaison Yasuhiro Okada (KEK)
Europe Liaison Steinar Stapnes (CERN)
Asia-Pacific Liaison Geoffrey Taylor (U. Melbourne)

Working Group 1
Pre-Lab Setup

Working Group 2
Accelerator

Working Group 3
Physics & Detectors

Overall:

- Prepare a proposal for the organization and governance of the ILC Pre-Lab (2022-25)
Prepare the work and deliverables of the ILC Pre-laboratory and workout a scenario for contributions with national and regional partners
- Understand what is needed to get the Pre-lab started (constraints and opportunities)
- Start of Pre-lab does not require full approval of the entire project
- Understand the workplan for each of these WGs, and adapt their composition – initial thinking for WG2 and WG3 below

Pre-lab 2022-25: Accelerator core activities

Technical preparations /performance & cost R&D [shared across regions]

- SRF performance R&D, positron source, nanobeam (ATF3) etc

Final technical design and documentation [central project office in Japan with the help of regional project offices (satellites)]

- Engineering design and documentation, WBS, costs, schedule, review, resource planning and follow up, etc

Preparation and planning of ILC deliverables [distributed across regions, liaising with the central project office and/or its satellites]

- Prototyping and qualification in local industries and laboratories (from SRF prod. line to individual WBS items)

CE, local infrastructure and site [host country assisted by selected partners]

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European priorities:

Pursue R&D interests and capabilities, material and personnel, link to strategic interests

European Project Office(s) – mostly personnel

Identification and preparation of ILC deliverables – one main one is a European SFR module line, then other individual WBS items

Contributions by single person/groups with special skills

Partner in Pre-lab activities

For planning and preparation on an ILC deliverable from a lab or FA:

- R&D required at some level
- Final specifications, technical documentation, tender documents
- Prototyping and qualification in (local) industry, followed by tests and verifications in industry or labs

So participation in and resources for several of the headings on the previous slide

Pre-lab 2022-25: Detector timeline

LHC:

- EoI April 1992 (12 submission – general and specialized), LoI October 1992 (reduced number), Technical Proposals December 1994 (further reduction), Approval early 1996
- First system TDR end 1996 (done system by system over the next years) - see pile on the right
- Requested, evaluated by LHCC - set up by CERN (responsibility of the Research Director)
- New cavern excavations started after (e.g. ATLAS 1998 and handed over five years later)
- LHC overall was approved December 1994 (but in the pipeline, with positive slope, since end 1991)



ILC (initial IDT thoughts for discussion)

- EoI mid-end 2022, LoI end 2023 (for reduced set?), Technical Proposal (or overall TDR) end 2025 for final set of experiments
- Requested and evaluated by "ILCC" – initially set up by the Prelab management, final approval however by ILC-laboratory
- Need "convergence towards approval" during Prelab, such that sufficient resources can be engaged at acceptable risk by the stakeholders

On-going/urgent actions (with European bias)



Next:

- Communication and News being set up (IDT level) with European participation
- More details on WGs planning, more discussions in community, among others in ALCWS – we should participate
- More participants in WGs from Europe
- Define timelines (short term and for Pre-lab)
- Define and map out European "ambitions" for Pre-lab phase
- Understand and explore funding opportunities for Pre-lab activities



Next

- The Americas LCWS is announced for 19-22 October 2020 (<https://conf.slac.stanford.edu/awlc2020/>). Its focus will be on pre-lab activities and also on the US planning, given the Snowmass process in progress.
- It is not yet clear when the next LCWS will take place in 2021 but it is possible that it will be in Europe (but most likely all remote).
- We also suggest to introduce a monthly information meeting. For the next months, we would like to suggest three dates:
 - Wednesday 4.11 10:00-12:00, Wednesday 9.12 10:00-12:00, Wednesday 13.1 10:00-12:00.Typical agenda: European WG1, 2, 3 members to report about WG activities, as well as national updates (as “fixed” agenda points), plus topical/current issues and discussions.
- Please forward emails to relevant colleagues and also ask them to sign up for the mailing list ilceurope-general@desy.de if they are interested to participate in future meetings. This can be done with a simple email to sympa@desy.de, with the subject line SUBSCRIBE ilceurope-general [firstname lastname]
If you want to un subscribe use UNSUBSCRIBE ilceurope-general
- Jorgen has also kindly offered to “advertise” wider using ECFA mailing lists, we suggest to do for next meeting
- Contact Thomas (thomas.schoerner@desy.de) or myself concerning WEB pages or email