

Dear colleagues,

The third General ILC Workshop (ILC2007) will be held in DESY from Wednesday 30th May until Saturday June 2nd. The workshop will run in parallel with the LCWS 2007 physics and detector workshops, with which ILC2007 will have several joint plenary sessions. Our plans are to make these joint workshops a tour de force of the global ILC community.

The deadline for reduced registration is April 25th (<http://lcws07.desy.de>)

The workshop occurs at a critical juncture of the ILC. Almost two years after the formal formation of the GDE, the recent completion of the draft Reference Design Report (RDR) marks a major milestone in this truly global effort. The GDE is now in the process of restructuring itself and making plans for the engineering design phase, leading to the completion of the ILC Engineering Design Report (EDR) in 2010.

ILC2007 provide an opportunity to discuss these plans and share them with the larger community.

The primary focus of the workshop is to:

- review current status of global ILC R&D and future plans, including GDE Global R&D Board recommendations, for both the baseline configuration as well as the supported alternative designs;
- review and plan activities in and around Test Facilities (both existing and proposed);
- identify and prioritise critical engineering milestones for EDR phase (cost driven), which are consistent and integrated with the critical R&D milestones;
- promote and improve collaboration between groups working on ILC related R&D:
 - To encourage a broader participation from active groups around the world;
 - To attract new researchers to the field;
- define the scope of the EDR and consolidate EDR planning:
 - Review general project structure and possible 'Work Package' (WP) structures;
 - Refine proposed schedule, milestones, deliverables etc.;
 - Begin process of WP allocation.

The workshop will follow the traditional collegiate structure with an open plenary session on the first day, followed by focused Working Groups (WG) in parallel sessions for the following two days. A final summary and close-out plenary is scheduled for the last day. There will be plenary discussions with the experimental community at strategic points during the workshop.

The detailed planning is expected to emerge over the next weeks, including joint sessions between related WGs. The developing program can be found on <http://lcws07.desy.de>.

Individuals wishing to make a presentation in a parallel session should contact as soon as possible the relevant WG conveners listed below.

Working Groups

The current planned Working Groups are summarised below.

Main Linac (SCRF)

Conveners:

Chris Adolphsen	(star@slac.stanford.edu)
Hitoshi Hayano	(hitoshi.hayano@kek.jp)
Lutz Lilje	(lutz.lilje@desy.de)
Nikolay Solyak	(solyak@fnal.gov)

The working group will cover all aspects of the SCRF main linac technology, including high-gradient SCRF cavities and auxiliaries (high-powered coupler, HOM couplers, tuners etc.); cryomodule design; RF power source; cryogenics; superconducting magnets etc.

Damping Rings

Conveners:

Jai Gao	(gaoj@ihep.ac.cn)
Susanna Guiducci	(susanna.guiducci@lnf.infn.it)
Andy Wolski	(a.wolski@dl.ac.uk)
Mike Zisman	(mszisman@lbl.gov)

The group will cover all aspects of the damping rings design work and R&D plans, including: basic lattice design; low-emittance tuning; instabilities (e-cloud, fast ion effects); impedance issues; s.c. wiggler design; vacuum design; fast injection / extraction kicker R&D etc.

Beam Delivery System

Conveners:

Deepa Angal-Kalinin	(d.angal-kalinin@dl.ac.uk)
Andrei Seryi	(seryi@slac.stanford.edu)
Hitoshi Yamamoto	(yhitoshi@awa.tohoku.ac.jp)

The group will discuss all issues pertaining to the BDS layout including: optics and layout; integrated IR design and alternative configurations; crab cavity system; collimation issues; push-pull issues; stabilization; critical magnet design; diagnostics and instrumentation; extraction line issues; high-powered beam dumps.

Sources (electron / positron)

Conveners:

Axel Brachmann	(brachman@slac.stanford.edu)
Masao Kuriki	(masao.kuriki@kek.jp)
Duncan Scott	(d.j.scott@dl.ac.uk)

The group will cover all critical aspects of polarised electron and positron production, including for the electron source: gun design (including cathode); capture section; laser systems; transport lines; and for the positron source: undulator design; target design; capture section; remote handling; undulator insertion optics; low-energy transport etc.

Conventional Facilities and Siting (CFS)

Conveners:

Jean-Luc Baldy	(jean-luc.baldy@cern.ch)
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Vic Kuchler (kuchler@fnal.gov)
Atsushi Enomoto (atushi.enomoto@kek.jp)

The CFS group will cover civil construction, water cooling and power distribution etc. It is expected that this group will arrange joint-sessions with each of the primary sub-system area WGs (above) to discuss CFS issues specific to those areas. Further planning on sample site activities, including possible shallow-site studies.

Accelerator Physics (simulation)

Conveners:

Kiyoshi Kubo (kiyoshi.kubo@kek.jp)
Paul Lebrun (lebrun@fnal.gov)
Daniel Schulte (daniel.schulte@cern.ch)

The group will focus on simulations of performance, with a focus on start-to-end simulations of the low-emittance transport (LET, bunch compressor, main linac, BDS). Topics will include low-emittance tuning (including beam-based alignment), feedback system definition and performance; calculations/impact of single- and multi-bunch wakefields; halo-generation and simulation of collimations efficiency; beam-beam simulations.

Controls

Conveners:

John Carwardine (carwar@aps.anl.gov)
Schinichiro Michizono (schinichiro.michizono@kek.jp)
Kay Rehlich (kay.rehlich@desy.de)

All aspects of the global controls systems, including LLRF control of the SCRF systems. High-availability, Global Accelerator Network (GAN) issues, etc.

Polarisation

Conveners:

Gudrid Moortgat-Pick (g.a.moortgat-pick@durham.ac.uk)
Sabine Riemann (sabine.riemann@desy.de)

Discussions on issues relating to electron and positron polarisation, including generation, preservation, transport and measurement.

Metrology

Conveners:

Rick Ford (rickford@fnal.gov)
Markus Schlösser (markus.schloesser@desy.de)
Ryuhei Sugahara (sugahara@post.kek.jp)

All aspects of survey and mechanical alignment for the ILC.

Special sessions

In addition to the parallel WGs, there are a number of special sessions foreseen:

- ATF-2 collaboration meeting (Thursday 31st May)

- European Industrial Forum (EIFast) session, (tentative 2.30PM Friday 2nd June)
- Joint MDI panel session (3PM Thursday 31st May)
- Joints WWS-GDE plenary to discuss EDR planning (Friday 1st June, 5PM)

Details of these meetings will also be posted on the web site.

We look forward to seeing you in Hamburg!