

Introduction to SAC Meeting, 19/20 April 2016

B. Foster

Uni-HH/DESY/JAI-Oxford

Current status of the VI

The mid-term review outcome

Charge to SAC

Agenda & discussion

VI Partners

- DESY – collaboration of physics and accelerator depts.
- **CERN**
- Frascati
- UniHH
- **John Adams Institute**
- Lawrence Berkeley
- IST Lisbon
- MPI Munich
- SLAC
- UCLA

Working Groups

- The VI's work is mostly carried out in the 4 Working Groups:

WG1: Particle-in-Cell simulations

- J. Vieira (IST) & A. Martinez de la Ossa (U. Hamburg)

WG2: Beam Instrumentation

- I. Kopolev (JAI) & V. Libov (DESY)

WG3: Plasma sources

- P. Muggli (MPI) & L. Shaper (DESY)

WG4: Photon Sources

- C. Schroeder (LBL) & C. Behrens (DESY)

Next Annual Meeting

- **The next VI Annual Meeting will take place in conjunction with the AAC meeting, just outside Washington.**
- **The meeting will begin after lunch on Saturday 30th July. An Agenda will be circulated nearer the time – a request for agenda items has been circulated.**
- **Participants from VI member institutions will be able to use VI funds to travel and to pay for one nights stay at the conference venue.**

The Mid-term Review Process

- **The review was very positive. We were given the highest possible marks in the evaluation. Detailed discussion tomorrow.**
- **There were some specific recommendations on the priority to be given to FF by the DESY directorate.**
- **We wrote to Helmut Dosch and received a reply last month.**

Letter from Directorate

Accelerators | Photon Science | Particle Physics

Deutsches Elektronen-Synchrotron
A Research Centre of the Helmholtz Association



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February 29, 2016

Recommendations of the mid-term review of the Helmholtz Virtual Institute on Plasma Wakefield Acceleration

Dear Brian,

I am writing this letter to respond to the recommendations of the mid-term review of the Helmholtz Virtual Institute on Plasma Wakefield Acceleration and to the issues regard FLASHForward, which you, as the Spokesman of this Institute, raised in your letter to me.

First of all, let me say that I very much appreciate your excellent work for this indeed fascinating project, which the review committee acknowledged with its overall very positive evaluation.

The FlashForward Project is one of the future DESY accelerator projects with a high innovation potential and thus has the full support of the DESY management. Current delays in the realization of FLASHForward are due to the fact that DESY is handling several construction sites in parallel, in particular the construction of the XFEL accelerator which does have – for obvious reasons – the highest priority. The DESY management can assure continued support for FLASHForward.*

With best regards

Prof. Dr. Dr. h. c. Helmut Dosch

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Prof. Dr. H. Dosch
(Vorsitzender)
C. Haringa
(kommissarisch)
Prof. Dr. J. Mnich
Prof. Dr. C. Weckert
Prof. Dr. C. Stegmann
(Vertreter des Direktoriums
in Zeuthen)

General Charge to SAC

- to investigate the extent to which the VI is fulfilling the aims set out by the Helmholtz Association as set out in Annex I below and to make suggestions to improve its efficacy;
- to evaluate the effectiveness and promise of the scientific programmes and priorities of the VI;
- to give advice on the management and implementation of the projects carried out in the context of the VI;
- to make other suggestions in the general area of plasma-wave acceleration that may be relevant to the work of the VI.

Specific Charge for this meeting

- Evaluate the current plan for the first experiment on FLASHForward, in particular the injection scheme.
- Provide advice on the Helmholtz mid-term review recommendations
- Advise on the development of the VI network and the model for a successful membership; to evaluate the effectiveness and promise of the scientific programmes and priorities of the VI;

Agenda

TUESDAY 19th April, 3.00 p.m.

Introductory presentation – BF – 10'

Reports from the Working Groups.

(10 minutes talk + 10 minutes discussion each)

- WG 1: Plasma Simulations (A.Martinez de la Ossa)
- WG 2: Beam Dynamics and Instrumentation (V. Libov)
- WG 3: Plasma Sources (L. Schaper)
- WG 4: Photon Sources (M.J.V. Streeter)

First experiment on FLASHForward.

- First preparatory experiments (C.A.J. Palmer, 15 minutes + 10 minutes)
- First beam-driven experiments (J. Osterhoff, 20 minutes + 10 minutes)

Agenda

WEDNESDAY 20th April, 3:00 p.m.

The Helmholtz mid-term review recommendations.

BF 20'

The 2015 meetings recommendations.

JO 20'

Initial closeout remarks.