



OLAV – V

5th Workshop on the Operation of LArge Vacuum systems



Workshop Programme

(11. 05. 2017)

<i>Tuesday, 9th May 2017</i>		
08:30	<i>Registration</i>	
09:00	<i>Welcome and Organization</i>	
Session 1: Latest developments at institutes		
09:15	MAX IV storage ring vacuum systems	Eshraq AL-DMOUR (MAX IV)
09:40	The European XFEL Beam Vacuum System	Sven LEDERER (DESY)
10:05	LCLS-II vacuum design and manufacturing: guidelines and an approach to implementation	Guilia LANZA (SLAC)
10:30	<i>Coffee break</i>	
Session 2: "Particle-free" vacuum systems		
11:00	Contamination Control for Vacuum Systems	Thomas WESTON (STFC Daresbury Labs)
11:25	Experiences with Clean Assembly of the European XFEL Vacuum System	Lutz LILJE (DESY)
11:50	Clean Vacuum Systems	Mathias HESSE (DESY)
12:15	Installation of the European XFEL Photon Vacuum System	Martin DOMMACH (European XFEL)
12:40	NEG pumps for accelerator applications: how far are we from a dust free pump?	Paolo MANINI (SAES GETTERS)
13:05	<i>Lunch</i>	
Session 3: Latest developments at institutes		
14:30	New Developments and Challenges on the ISIS - The UK's Neutron & Muon research facility	Sunil PATEL (STFC Rutherford Appleton Lab)
14:55	The Conceptual Design of PIP-II Vacuum System	Alex CHEN (Fermilab)
15:20	The vacuum system of the china spallation neutron source	Haiyi DONG (Institute of High Energy Physics, Chinese Academy of Science)
15:45	<i>Coffee break</i>	
16:15	Cold Linac for the European Spallation Source Update on Design and Status	Fabio RAVELLI (ESS)
16:40	Rare Isotope Science Project Vacuum System Design	Hyungjoo Son (RISP)
17:05	ESS Vacuum standardization on Neutron Instruments	Fabio RAVELLI (ESS)
17:30	Vacuum Design of Drift Tube Linac for the European Spallation Source	Simone SCOLARI (ESS)
17:55	<i>Discussion/ Wrap-up</i>	
18:15	<i>Departure Social event "Miniaturwunderland"</i>	

<i>Wednesday, 10th May 2017</i>		
09:00	<i>DESY Tour</i>	
12:45	<i>Lunch</i>	
Session 4: Operational issues and long term experiences		
14:15	Vacuum mechanics at CERN including turbo strategy	Jaime PEREZ ESPINOS (CERN)
14:40	Pumpdown time of the CCL units for the LIGHT accelerator	Friederike SALVETER (Adam SA)
15:05	DDBA Design construction and installation challenges	Andrew Miller (Diamond Light Source)
15:30	First Year Operation of C-ADS Injector I Vacuum System	Guo Dizhou (IHEP)
15:55	<i>Coffee break</i>	
16:15	Status of LHC injectors and experimental areas	Jose Antonio FERREIRA SOMOZA (CERN)
16:40	The operation of SSRF storage ring vacuum system	Yiyong LIU (Shanghai Institute of applied physics)
17:05	R2E issues and mitigations	Gregory PIGNY (CERN)
17:30	10 Years Operational Experiences of BEPC II Storage Ring Vacuum System	Ping HE (IHEP)
17:55	<i>10 year of operation experience with NEG coating</i>	<i>Giuseppe BREGLIOZZI</i> (CERN)
18:20	End of program	

<i>Thursday, 11th May 2017</i>		
Session 5: Vacuum component issues Vacuum failures and recovery		
09:00	Experience with acceptance tests at CERN	Chiara PASQUINO (CERN)
09:25	Design of the magnetic extraction septa of the SIS100 synchrotron at FAIR	Ivan PONGRAC Stefan WILFERT (GSI)
09:50	LHC non-conformities and their recovery	Josef SESTAK (CERN)
10:15	A Case Study - Recent Fluorocarbon Contamination at CESR UHV System and Mitigations	Yulin LI (CLASSE, Cornell University)
10:40	<i>Coffee break</i>	
Session 6: Advances in vacuum technology		
11:10	Ion Pump for Particle Accelerators: A new design with optimized pumping speed at low pressures	Mauro AUDI (Agilent Technologies)
11.35	Development and Test of Aluminum Alloy Knife-Edge Flanges	Yulin LI (CLASSE, Cornell University)
12:00	Vacuum System Developments at CERN	Paul CRUIKSHANK (CERN)
12.25	<i>Lunch</i>	

Session 7: Vacuum Control Systems		
14:00	Vacuum instrumentation developments at Diamond	Hugo SHIERS (Diamond Light Source)
14:25	The ESS Vacuum control system	Hilko Peter SPOELSTRA (ESS)
14:50	The accelerator vacuum control system of CSNS	Huang TAO (Institute of High Energy Physics, Chinese Academy of Science)
15:15	First experience with a PLC based Vacuum Controls and bake-out System at CRYRING	Andreas KRAEMER Christine BETZ (GSI)
15:40	End of session	
15:45	Transport to Schenefeld	
	Coffee and tour	
18:30	Dinner	

<i>Friday, 12th May 2017</i>		
Session 8: Pressure Measurements and RGA Outgassing of materials		
09:00	Residual gas analysing at CERN experience and developments	Berthold JENNINGER (CERN)
09:25	A Short Review of Outgassing	Rebecca GRINHAM Andrew CHEW (Edwards Vacuum)
09:50	Discussion on a special VACUUM issue with OLAV topics	Oleg B. Malyshev
10:10	Coffee Break	
10:40	Outgassing rate measurements of high-temperature resistant polymers and ceramics	Katharina BATTES (KIT)
11:05	Secondary electron parameters measurement device and commissioning in CSNS	Pengcheng WANG (Institute of High Energy Physics, Chinese Academy of Science)
11:30	Two highlights from ASTeC	Oleg B. Malyshev
11:50	Discussion/Wrap-up	
12:05	Presentation next OLAV-VI	
12:15	Lunch/Departure	

General Information

Oral and postersession

Oral sessions will be held in the FLASH Seminar room, Bldg 28c.

Sessions Vendor exhibition

The vendor exhibition will take place in the in the foyer of the FLASH Seminar room.

Social events

The social dinner will take place on May 9th at 19.00hrs. at the Miniaturwunderland Hamburg (<http://www.miniatur-wunderland.de>). A bus shuttle will be provided at 18.15hrs from DESY premises.

The conference dinner will be served on May 11th at 19.00 at DESY on the terrace in front of the FLASH Seminar room.

DESY and XFEL Tours

On Wednesday 10th the DESY Tours will start at 09.00h.

On Thursday 11th afternoon the visit of the XFEL site is scheduled. A bus shuttle will be provided. Further information on the tours will be given during the conference.

DESY WLAN

You may either use the "DESY Guest" WLAN or if possible the "Eduroam" WLAN.

Cash machine/ATM

You will find a cash machine in the foyer of the DESY canteen (Building 9).

Meals

Breakfast

If you stay at the DESY guest house you may have breakfast in the DESY cafeteria (opens at 07:00h, Bldg. 9) at your own expenses.

Lunch

You may have lunch in the DESY canteen (Bldg. 9). Vouchers with the value of 5 Euro will be provided.

Supermarkets

LIDL

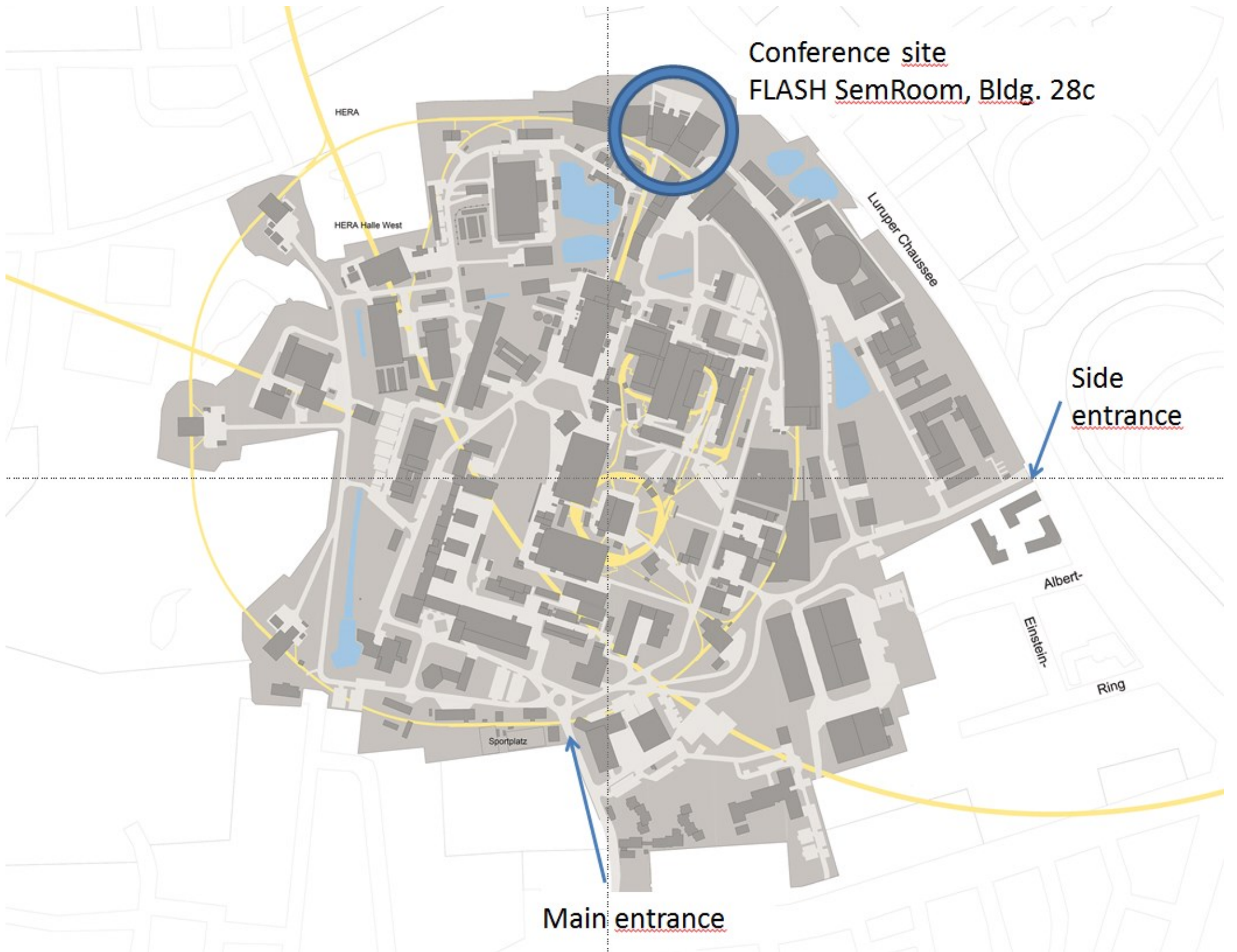
From the main gate at Notkestrasse turn right and follow the street (700 – 800m).

PENNY

From the DESY main gate (Notkestrasse) walk straight down the street "Zum Hünengrab" (700 – 800m).

Opposite to this supermarket you will find a bakery and other shops (drugstore).

Conference site
FLASH SemRoom, Bldg. 28c



HERA

HERA Halle West

Sportplatz

Lurper Chaussee

Side entrance

Albert-

Einstein-

Ring

Main entrance