



# OLAV – V

## 5th Workshop on the Operation of LArge Vacuum systems

### Workshop Programme

(03. 05. 2017)

<i>Tuesday, 9<sup>th</sup> May 2017</i>		
08:30	<i>Registration</i>	
09:00	<i>Welcome and Organization</i>	
<b>Session 1: Latest developments at institutes</b>		
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>	
<b>Session 2: "Particle-free" vacuum systems</b>		
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>	
<b>Session 3: Latest developments at institutes</b>		
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	Marcelo JUNI FERREIRA (ESS)

17:30	Vacuum Design of Drift Tube Linac for the European Spallation Source	Simone SCOLARI (ESS)
17:55	Discussion/ Wrap-up	
18:15	Departure Social event "Miniaturwunderland"	

### Wednesday, 10th May 2017

09:00	<i>DESY Tour</i>	
12:45	<i>Lunch</i>	
<b>Session 4: Operational issues and long term experiences</b>		
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	Ping HE (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 (CLASSE, Cornell University)
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	Discussion/ Wrap-up	
18:15	End of program	

### Thursday, 11th May 2017

<b>Session 5: Vacuum component issues Vacuum failures and recovery</b>		
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
10:40	<i>Coffee break</i>	
<b>Session 6: Advances in vacuum technology</b>		
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>	

<b>Session 7: Vacuum Control Systems</b>		
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>		
<b>Session 8: Pressure Measurements and RGA Outgassing of materials</b>		
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	Outgassing rate measurements of high-temperature resistant polymers and ceramics	Katharina BATTES (KIT)
10:15	Discussion on a special VACUUM issue with OLAV topics	Oleg B. Malyshev
10:30	Coffee Break	
11:00	Secondary electron parameters measurement device and commissioning in CSNS	Pengcheng WANG (Institute of High Energy Physics, Chinese Academy of Science)
11:25	10 year of operation experience with NEG coating	Giuseppe BREGLIOZZI (CERN)
11:50	Discussion/Wrap-up	
12:15	Presentation next OLAV-VI	
12:30	Lunch/Departure	