

**10<sup>th</sup> Workshop on Sample Environment at Scattering Facilities, Berlin/Potsdam, 2-6 September 2018**  
**Scientific Program**

Monday, 3. September 2018			
Time	Session	Name	Title
09:00	1	Paolo Imperia, Klaus Kiefer	OPENING
09:20	2	Gene Davidson, ACNS ANSTO	AUSTRALIAN CENTRE FOR NEUTRON SCATTERING: FACILITY AND PROGRESS REPORT
09:40	3	Exhibitors	INTRODUCTION OF EXHIBITORS
10:00	4		
10:30-11:00 Coffee + Exhibition			
11:00	1	Klaus Kiefer, HZB	SAMPLE ENVIRONMENT AT HZB
11:20	2	Gary W. Lynn, ORNL	SAMPLE ENVIRONMENT AT OAK RIDGE NATIONAL LABORATORY'S SPALLATION NEUTRON SOURCE AND HIGH FLUX ISOTOPE REACTOR
11:40	3	Eddy Lelièvre-Berna, ILL	SANE — SERVICES FOR ADVANCED NEUTRON ENVIRONMENT AT THE ILL
12:00	4	Koji Kaneko, JRR-3	STATUS AND NEWS FROM JRR-3
12:30-14:00 Lunch			
14:00	1	Takayuki Oku, J-PARC	SAMPLE ENVIRONMENT AT J-PARC MLF
14:20	2	Shaoying Zhang, CAS	PROGRESS IN CSNS FACILITY AND SAMPLE ENVIRONMENT
14:40	3	Arno Hiess, ESS	UPDATE ON SCIENCE SUPPORT SYSTEMS AT THE EUROPEAN SPALLATION SOURCE
15:00	4	Stefan Carlson, MAX IV	THE SAMPLE ENVIRONMENT TEAM AT MAX IV LABORATORY, SWEDEN
15:30-16:00 Coffee + Exhibition			
16:00	1	Jürgen Peters, MLZ	SE@MLZ: WHAT'S THE NEWS?
16:20	2	Yamali Hernandez, NCNR	NIST CENTER FOR NEUTRON RESEARCH NEWS UPDATE 2017-2018
16:40	3	Marek Bartkowiak, PSI	THE SAMPLE ENVIRONMENT AT SINQ/PSI IN VIEW OF THE SINQ UPGRADE PROGRAM
17:00	4	Chris Redmon, ORNL	BEYOND THE BASICS IN AN INCREASINGLY COMPLEX WORLD
17:30-19:00 Posters A + Exhibition			
19:00-20:00 Dinner			
20:30-21:30 ISSE Board Meeting			

	Overview Talks
	Regular Talks
	Company Talks

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Tuesday, 4. September 2018			
Time	Session	Name	Title
09:00	1	Markus Zolliker, PSI	THE SAMPLE ENVIRONMENT COMMUNICATION PROTOCOL SECOP
09:20	2	Kathryn Baker, STFC	IBEX - SAMPLE ENVIRONMENT CONTROL AT ISIS
09:40	3	Frank Wutzler, HZB	SECOP LIBRARY AND SECOP LABVIEW INTEGRATION
10:00	4	Enrico Faulhaber, MLZ	EXPERIENCE WITH THE SAMPLE ENVIRONMENT COMMUNICATION PROTOCOL SECOP
10:30-11:00 Coffee + Exhibition			
11:00	5	Kathryn Baker, STFC	BEST PRACTICES IN DEVELOPMENT AND TESTING
11:20	1	Paul Neves, NCNR	MULTI-APPLICATION NEUTRON IN-SITU AC SUSCEPTOMETER (MANIACS) FOR SIMULTANEOUS NEUTRON MEASUREMENTS AT LOW TEMPERATURES AND HIGH PRESSURE AT NCNR
11:40	2	Louis Santodonato, ORNL, ARS	HOW THE GROWTH OF NEUTRON IMAGING AT ORNL IMPACTS THE SAMPLE ENVIRONMENT PROGRAM
12:00	3	Alexander Holmes, ESS	HUGINN: PELTIER-BASED TEMPERATURE CONTROLLED SAMPLE PLATFORMS FOR NEUTRON SCATTERING
12:30-14:00 Lunch			
14:00	1	Richard Down, ISIS, STFC	CRYOGENIC SAMPLE ENVIRONMENT AT ISIS
14:20	2	Jack-Andre Schmidt, Univ. Giessen	ADJUSTABLE SAMPLE COOLING BY 4 K TWO STAGE PULSE TUBE COLD HEAD WITH MINIMUM INPUT POWER DRIVEN BY SMART HELIUM COMPRESSOR
14:40	3	Louis Santodonato, ARS	EXTENDING THE CAPABILITIES OF THE ARS OMNIPLEX FOR 1.5 K SAMPLE IN VAPOR APPLICATIONS
15:00	4	Alexander Holmes, ESS	A WET CRYOSTAT FOR THE 21ST CENTURY?
15:30-16:00 Coffee + Exhibition			
16:00	1	Marek Bartkowiak, PSI	NON-MAGNETIC GONIOMETER FOR DILUTION REFRIGERATORS
16:20	2	John Burgoyne, Oxford Instruments	NEW TECHNOLOGY DEVELOPMENTS FOR HIGH MAGNETIC FIELD AND LOW TEMPERATURE SAMPLE ENVIRONMENT
16:40	3	Paolo Imperia, ANSTO	NEW SAMPLE ENVIRONMENT PROJECTS AND DEVELOPMENTS AT THE AUSTRALIAN CENTRE FOR NEUTRON SCATTERING
17:00	4	Taotao Huang, HTS-110	A PASSIVELY SHIELDED HTS MAGNET FOR POLARIZED NEUTRON SCATTERING
17:30-19:00 Posters B + Exhibition			
19:00-20:00 Dinner			
20:30-21:30 SECOP Meeting			

Regular Talks  
 Company Talks

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Wednesday, 5. September 2018			
Time	Session	Name	Title
09:00	1	Oleg Kirichek, ISIS	SAMPLE ENVIRONMENT FOR NEUTRON SCATTERING AND MUON SPECTROSCOPY EXPERIMENTS AT ISIS FACILITY
09:20	2	General assembly ISSE	
09:40	3		
10:00-10:30		Coffee + Exhibition	
10:30	1	Eric Delangre, ILL	ADSORPTION TROUGHES FOR HORIZONTAL REFLECTOMETRY
10:50	2	Andy Church, ISIS, STFC	ADVANCES MADE IN THE SHORT EXISTANCE OF SOFT MATTER
11:10	3	Dirk Wallacher, HZB	IN-SITU SETUP FOR GRAVIMTRIC MEASURED VAPOR SORPTION COMBINED WITH SMALL ANGLE NEUTRON SCATTERING
11:30	4	Chris Goodway, ISIS	SAMPLE ENVIRONMENT DEVELOPMENTS IN GAS HANDLING, HIGH TEMPERATURE AND HIGH PRESSURE.
12:00-13:00		Lunch	
13:00-14:00		Transfer to BER II	
14:00	1	Klaus Habicht, HZB	NEUTRON SCATTERING AT THE BER II FACILITY
14:20	2	Peter Smeibidl, HZB	HFM-EXED: THE HZB HIGH FIELD FACILITY FOR NEUTRON SCATTERING
14:40	3	Robert Wahle, HZB	HFM CRYOSTATS IN OPERATION
15:00	4	Christopher Lawson, STFC	ULTRA-LOW TEMPERATURE SAMPLE ENVIRONMENT AT THE ISIS NEUTRON AND MUON SOURCE
15:20	5	Ted Forgan, Univ. of Birmingham	A HORIZONTAL DILUTION REFRIGERATOR FOR THE EXED 26 T BEAMLINE
15:50-17:30		Visit BER II	
17:30-18:00		Time Buffer	
18:00-18:30		Transfer to Glienicke Bridge	
		Dinner Boat	
18:30-22:30		Michael Meissner, MSC Berlin	SAMPLE ENVIRONMENT WORKSHOPS 1999 – 2018, A REVIEW
		Eddy Lelièvre-Berna, ILL	SERGE PUJOL WAS A LEGEND!

	Overview Talks
	Regular Talks
	Celebratory Talks

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Thursday, 6. September 2018				
Time	Session	Name	Title	
08:15-09:30		Transfer to BESSY II		
09:30	1	Antje Vollmer, HZB	Overview VI	BESSY II AS PART OF THE EUROPEAN LIGHT SOURCE LANDSCAPE - OVERVIEW, POSSIBILITIES, REQUIREMENTS: A GATEWAY TO SCIENCE AND INTERNATIONAL COLLABORATION
09:50	2	Yves Watier, ESRF		THE SAMPLE ENVIRONMENT SERVICES AT THE ESRF
10:10	3	Anita Ehnes, DESY		SAMPLE ENVIRONMENT AND EXTREME CONDITION SCIENCE INFRASTRUCTURE ECSI AT PETRA III
10:30	4	Joachim Schulz, XFEL		SAMPLE ENVIRONMENT AT THE EUROPEAN XFEL
11:00-11:30		Coffee + Exhibition		
11:30	1	Peter Docker, Diamond	Photons I	APPROACH TO SAMPLE DELIVERY FOR ROOM TEMPERATURE & TIME RESOLVED EXPERIMENTS AT DIAMOND AND XFELS
11:50	2	Isvar Cordova, ALS		VERSATILE IN SITU CELL FOR RESONANT X-RAY SCATTERING AND MICROSCOPY
12:10	3	Matteo Amati, Elettra		NOVEL SOLUTIONS FOR NEAR - AMBIENT PRESSURE IN-SITU AND IN-OPERANDO PHOTOELECTRON SPECTRO-MICROSCOPY
12:30	4	Dirk Wallacher, HZB		CONTROLLED GAS ATMOSPHERES FOR XRD AND XANES AT BESSY-II
13:00-14:00		Lunch + Posters C + Exhibition		
14:00	1	Gerd Schneider, HZB	Photons II	NANOSCALE 3-D X-RAY IMAGING
14:15	2	Taotao Huang, HTS-110		COMPACT HTS MAGNETS FOR SYNCHROTRON X-RAY EXPERIMENTS
14:30	3	Christian Feiler, HZB		SAMPLE ENVIRONMENT AT THE BEAMLINES FOR MACROMOLECULAR X-RAY CRYSTALLOGRAPHY AT BESSY II
14:45	4	Axel Knop-Gericke, F.-Haber-Inst.		PHOTOELECTRON SPECTROSCOPY OF CATALITICALLY ACTIVE SOLID-GAS AND SOLID-LIQUID INTERFACES
15:00	5	Andrei Varykhalov, HZB		SAMPLE CONTROL AND ENVIRONMENT FOR ANGLE-RESOLVED PHOTOEMISSION EXPERIMENTS AT BESSY II
15:25-17:00		Visit BESSY II		
17:00-17:15		Time Buffer		
17:15-18:30		Transfer to Hotel		
18:30-23:00		Goodbye Dinner (BBQ)		

	Overview Talks
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Posters A: Monday, 3. September 2018: 17:30 - 19:00		
No.	Name	Title
<b>In-situ, Soft Matter &amp; Time Resolved Experiments</b>		
P-A-1	Gene Davidson, ANSTO	ILLUMINATING EXPERIMENTS AT ACNS; IN-SITU AND EX-SITU LIGHT IRRADIATION AND SPECTROSCOPY OPTIONS
P-A-2	René Blažević, HZB	HOT VAPOR ADSORPTION CHAMBER FOR X-RAY DIFFRACTION
P-A-3	Matt North, ISIS, STFC	IN-SITU 10KN STRESS RIG FOR SXD
P-A-4	Robert Wendt, HZB	SAMPLE ENVIRONMENT FOR IN SITU INVESTIGATION ON NANOPARTICLE FORMATION USING SYNCHROTRON X-RAY SCATTERING
P-A-5	Tom Charleston, ISIS	IMPROVED EXPERIMENTAL DATA DUE TO IN-HOUSE DEVELOPMENTS
P-A-6	Yoshifumi Sakaguchi, CROSS	SAMPLE ENVIRONMENT EQUIPMENT FOR LIGHT IRRADIATION EXPERIMENT IN J-PARC
P-A-7	Jochen Fenske, HZG	THE ENGINEERING DIFFRACTOMETER BEER AT ESS AND ITS DAY-1 SAMPLE ENVIRONMENT
P-A-8	Colin Offer, ISIS	ELECTROCHEMICAL CELL FOR NIMROD/SANDALS AND SANS INSTRUMENTS
P-A-9	Jonathan Lewzey, STFC	CLOSED CYCLE REFRIGERATOR (CCR) OPTICAL CENTRE STICK FOR IN-SITU RAMAN SPECTROSCOPY
<b>Gas Atmospheres</b>		
P-A-10	Ralf Feyerherm, HZB	BINARY GAS ANALYSER FOR CONTROL OF GAS MIXTURES
P-A-11	Matthias Neeb, HZB	DIFFERENTIAL PUMPING UNIT FOR SOFT X-RAY PHOTOEMISSION EXPERIMENTS UNDER AMBIENT PRESSURE CONDITIONS
P-A-12	Graham Burgess, ISIS	ISIS NEUTRON AND MUON FACILITY CONTROL SYSTEM DEVELOPMENT OF A VOLUMETRIC GAS HANDLING PANEL
<b>High Pressure</b>		
P-A-13	Julien Gonthier, ILL	NEW PRESSURE CELLS FOR MEMBRANE LAYERS AND SYSTEMS IN SOLUTIONS UP TO 100°C
P-A-14	Hiroshi Arima, CROSS	DEVELOPMENT OF A LOW-TEMPERATURE AND HIGH-PRESSURE SYSTEM FOR NEUTRON EXPERIMENTS AT 10 GPA AND 4K IN J-PARC
P-A-15	Gene Davidson, ANSTO	RECENT DEVELOPMENTS IN SAMPLE ENVIRONMENT AT ACNS
P-A-16	Karel Prokes, HZB	PARIS-EDINBURGH PRESSURE CELL AT HZB
P-A-17	Mark Loguillo, ORNL	IN SITU PRESSURE MEASUREMENTS FOR CLAMP TYPE PRESSURE CELLS
<b>High Temperatures</b>		
P-A-18	Yoshifumi Sakaguchi, CROSS	HIGH TEMPERATURE FURNACE FOR SMALL-ANGLE NEUTRON SCATTERING INSTRUMENT IN J-PARC
P-A-19	Adam Sears, ISIS	FAST COOLING FURNACE PROJECT
P-A-20	Bekki Mills, ORNL	LOW BACKGROUND GAS FLOW FURNACE DEVICES
P-A-21	Jürgen Peters, FRM II	ATG AND QUENCH-CENTER STICK FOR HIGH TEMPERATURE FURNACE
P-A-22	Andreas Buchner, FRM II	INFRARED FURNACE WITH CONTROLLED GAS ATMOSPHERE
P-A-23	Christiane Stephan-Scherb, BAM	IN-SITU ANALYSIS OF HIGH TEMPERATURE GAS CORROSION ON ALLOY SURFACES BY SYNCHROTRON X-RAY DIFFRACTION AND SPECTROSCOPY

	Neutron poster
	Photon poster
	Neutron & Photon poster

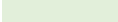


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Posters B: Tuesday, 4. September 2018: 17:30 - 19:00		
No.	Name	Title
<b>Robotics</b>		
P-B-1	Graham Burgess, ISIS	ISIS NEUTRON AND MUON FACILITY CONTROL SYSTEM DEVELOPMENT OF A ROBOTIC SAMPLE CHANGER
<b>Low Temperatures</b>		
P-B-2	Julien Gonthier, ILL	NEW-GENERATION 0.030 K – 320 K FULLY AUTOMATED GAS HANDLING SYSTEMS FOR DILUTION INSERTS AT THE ILL
P-B-3	Sergiy Gladchenko, NCNR	SAMPLE POSITIONING AT ULTRA-LOW TEMPERATURES
P-B-4	Jakub Vonka, PSI	LOW-TEMPERATURE PLATFORM FOR THZ PUMP – X-RAY PROBE EXPERIMENTS AT SWISSFEL
P-B-5	Bo Bai, CSNS	PROGRESS OF CSNS CRYO EQUIPMENT
P-B-6	Seiko Ohira-Kawamura, J-PARC	STATUS OF CRYOGENICS AND MAGNETS AT J-PARC MLF
P-B-7	Alex Holmes, ESS	TEMPERATURE AND FIELD SAMPLE ENVIRONMENT AT ESS
P-B-8	Dirk Wallacher, HZB	CRYOSTAT FOR HIGH-RESOLUTION X-RAY EMISSION SPECTROSCOPY
P-B-9	Nico Grimm, HZB	CRYOSTAT FOR NEUTRON LAUE DIFFRACTION
P-B-10	Jamie Nutter, ISIS	ISIS ORANGE CRYOSTAT – AUTO TEMPERATURE CONTROLLER
<b>Helium Management</b>		
P-B-11	Klaus Kiefer, HZB	HELIUM MANAGEMENT AT HZB
P-B-12	Paul Frodsham, ISIS	HELIUM RECOVERY SYSTEM AT ISIS NEUTRON SPALLATION AND MUON SOURCE
<b>Magnetic Fields</b>		
P-B-13	Kazuki Ohishi, CROSS	SAMPLE ENVIRONMENT AT THE SMALL AND WIDE ANGLE NEUTRON SCATTERING INSTRUMENT TAIKAN OF J-PARC AND ITS APPLICATION TO THE CHIRAL MAGNETS
P-B-14	Masao Watanabe, JAEA	PULSED MAGNET SYSTEM AT MLF IN J-PARC
P-B-15	Jeff Keeping, ISIS	MAGNET SUITE AT ISIS
P-B-16	Tim D'Adam, ANSTO	INTEGRATION OF POLARISED 3HE INFRASTRUCTURE WITH SAMPLE ENVIRONMENT EQUIPMENT
P-B-17	Hanjo Ryll, HZB	VEKMAG - A VECTOR MAGNET FOR BESSY II
P-B-18	Bastian Klemke, HZB	QUANTUM MATERIALS CORE LAB AT HELMHOLTZ-ZENTRUM BERLIN
P-B-19	Markus Zolliker, PSI	NEW CAPABILITIES AT SINQ
P-B-20	Nele Thielemann-Kühn, FU Berlin	THE NEW DYNAMAX ENDSTATION AT THE FEMTOSPEX SLICING FACILITY FOR ULTRAFast DYNAMICS STUDIES
<b>Software</b>		
P-B-21	Bastian Klemke, HZB	“ISAAC” – A MODULAR CONTROL SOFTWARE BOTH FOR SAMPLE ENVIRONMENT AND LABORATORY BASED EXPERIMENTS
P-B-22	Anders Pettersson, HZB	UPDATE FROM THE SAMPLE ENVIRONMENT MECHATRONICS AND SYSTEM INTEGRATION PLATFORM AT ESS.
P-B-23	Frank Wutzler, HZB	SECOP - THE SAMPLE ENVIRONMENT COMMUNICATION PROTOCOL
P-B-24	Maksim Schastny, ISIS	OPEN SOURCE SAMPLE ENVIRONMENT DEVELOPMENT PLATFORM

	Neutron poster
	Photon poster
	Neutron & Photon poster

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Posters C: Thursday, 6. September 2018 Lunch Break: 13:00 - 14:00		
No.	Name	Title
Display of all Photon Posters		
P-C-1	Dörthe Haase, MAX IV	SAMPLE ENVIRONMENT AND DETECTOR SUPPORT (SEDS) A BEAMLINE SUPPORT TEAM AT THE MAX IV LABORATORY
P-A-2	René Blažević, HZB	HOT VAPOR ADSORPTION CHAMBER FOR X-RAY DIFFRACTION
P-A-4	Robert Wendt, HZB	SAMPLE ENVIRONMENT FOR IN SITU INVESTIGATION ON NANOPARTICLE FORMATION USING SYNCHROTRON X-RAY SCATTERING
P-A-10	Ralf Feyerherm, HZB	BINARY GAS ANALYSER FOR CONTROL OF GAS MIXTURES
P-A-11	Matthias Neeb, HZB	DIFFERENTIAL PUMPING UNIT FOR SOFT X-RAY PHOTOEMISSION EXPERIMENTS UNDER AMBIENT PRESSURE CONDITIONS
P-A-23	Christiane Stephan-Scherb, BAM	IN-SITU ANALYSIS OF HIGH TEMPERATURE GAS CORROSION ON ALLOY SURFACES BY SYNCHROTRON X-RAY DIFFRACTION AND SPECTROSCOPY
P-B-4	Jakub Vonka, PSI	LOW-TEMPERATURE PLATFORM FOR THZ PUMP – X-RAY PROBE EXPERIMENTS AT SWISSFEL
P-B-8	Dirk Wallacher, HZB	CRYOSTAT FOR HIGH-RESOLUTION X-RAY EMISSION SPECTROSCOPY
P-B-11	Klaus Kiefer, HZB	HELIUM MANAGEMENT AT HZB
P-B-17	Hanjo Ryll, HZB	VEKMAG - A VECTOR MAGNET FOR BESSY II
P-B-18	Bastian Klemke, HZB	QUANTUM MATERIALS CORE LAB AT HELMHOLTZ-ZENTRUM BERLIN
P-B-20	Nele Thielemann-Kühn, FU Berlin	THE NEW DYNAMAX ENDSTATION AT THE FEMTOSPEX SLICING FACILITY FOR ULTRAFAST DYNAMICS STUDIES
P-B-21	Bastian Klemke, HZB	"ISAAC" – A MODULAR CONTROL SOFTWARE BOTH FOR SAMPLE ENVIRONMENT AND LABORATORY BASED EXPERIMENTS
P-B-23	Frank Wutzler, HZB	SECOP - THE SAMPLE ENVIRONMENT COMMUNICATION PROTOCOL

 Neutron poster  
 Photon poster  
 Neutron & Photon poster