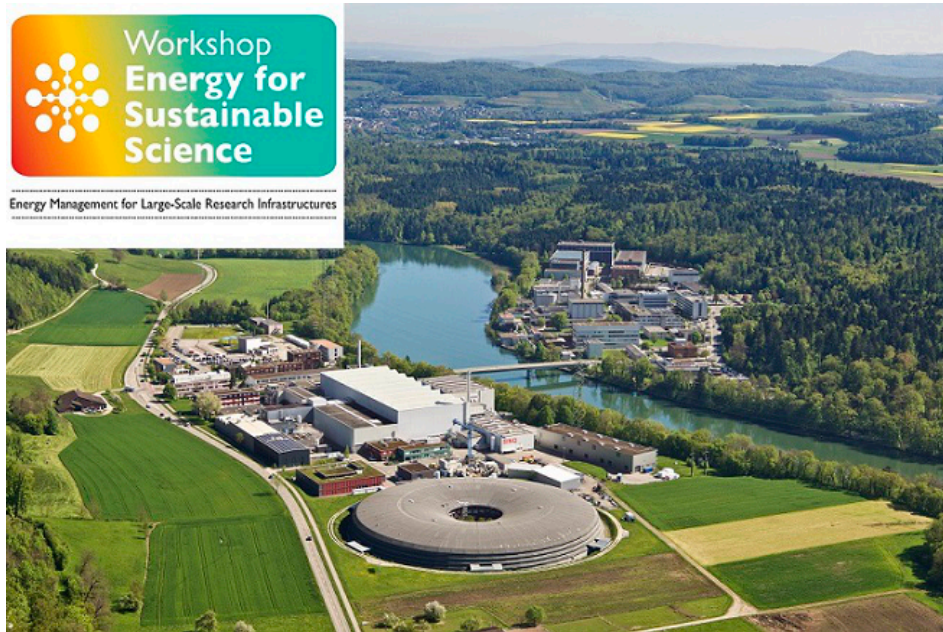


5th Workshop Energy for Sustainable Science at Research Infrastructures



Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Thursday, 28 November 2019 09:00 (10 minutes)

Primary author: STRÄSSLE, Thierry (Paul Scherrer Institut)

Presenter: STRÄSSLE, Thierry (Paul Scherrer Institut)

Session Classification: Thursday, 28 November 2019

Contribution ID: 2

Type: **not specified**

The Swiss energy strategy 2050 and energy research landscape

Thursday, 28 November 2019 09:30 (30 minutes)

Summary

Primary author: OBERHOLZER, Stefan (Swiss Federal Office of Energy)

Presenter: OBERHOLZER, Stefan (Swiss Federal Office of Energy)

Session Classification: Thursday, 28 November 2019

Contribution ID: 4

Type: **not specified**

Sustainability considerations of present and future accelerators and infrastructures at DESY

Thursday, 28 November 2019 12:30 (30 minutes)

Presenter: LEEMANS, Wim (DESY)

Session Classification: Thursday, 28 November 2019

Contribution ID: 5

Type: **not specified**

Application of fuel cells for UPS

Thursday, 28 November 2019 15:20 (25 minutes)

Presenter: BUECHI, Felix (Paul Scherrer Institut)

Session Classification: Thursday, 28 November 2019

Contribution ID: 6

Type: **not specified**

District heating and use of waste heat recovery at the ESS

Thursday, 28 November 2019 15:45 (25 minutes)

Presenter: STRÖMBERG, Sonny (E.ON)

Session Classification: Thursday, 28 November 2019

Contribution ID: 7

Type: **not specified**

Low Loss S.C. Cavities

Thursday, 28 November 2019 17:30 (25 minutes)

Primary author: GERIGK, Frank (CERN)

Presenter: GERIGK, Frank (CERN)

Session Classification: Thursday, 28 November 2019

Contribution ID: 8

Type: **not specified**

MgB2 based Power Transmission Lines for the powering of the HL-LHC Superconducting Magnets

Thursday, 28 November 2019 17:55 (25 minutes)

Primary author: Dr BALLARINO, Amalia (CERN)

Presenter: Dr BALLARINO, Amalia (CERN)

Session Classification: Thursday, 28 November 2019

Contribution ID: 9

Type: **not specified**

Permanent accelerator magnets for light sources

Friday, 29 November 2019 09:20 (25 minutes)

Summary

Presenter: CHAVANNE, Joel (ESRF)

Session Classification: Friday, 29 November 2019

Contribution ID: **10**

Type: **not specified**

Energy consumption considerations in the beam physics design and optimisation of the ESS linac

Thursday, 28 November 2019 17:05 (25 minutes)

Presenter: ESHRAQI, Mamad (ESS - European Spallation Source (SE))

Session Classification: Thursday, 28 November 2019

Contribution ID: 11

Type: **not specified**

District heating and use of waste heat recovery at the ESS

Presenter: STRÖMBERG, Sonny (E.ON)

Session Classification: Thursday, 28 November 2019

Contribution ID: 12

Type: **not specified**

Energy Management at ALBA

Thursday, 28 November 2019 17:30 (25 minutes)

Presenter: CASAS, Joan (ALBA Synchrotron)

Session Classification: Thursday, 28 November 2019

Contribution ID: 13

Type: **not specified**

Status of high efficient RF power sources - Outcome of Uppsala Workshop

Friday, 29 November 2019 08:30 (25 minutes)

Presenter: RUBER, Roger (Uppsala University)

Session Classification: Friday, 29 November 2019

Contribution ID: 14

Type: **not specified**

Technology and Economics of He Refrigeration Using the Example of ESS

Friday, 29 November 2019 08:30 (25 minutes)

Primary author: Dr WEISEND, John (ESS)

Presenter: Dr WEISEND, John (ESS)

Session Classification: Friday, 29 November 2019

Contribution ID: 15

Type: **not specified**

Introduction to Workshop & Goals

Thursday, 28 November 2019 09:10 (20 minutes)

Presenter: Dr BORDRY, Frédéric (CERN)

Session Classification: Thursday, 28 November 2019

Contribution ID: 16

Type: **not specified**

Research on Sustainable Energy at PSI

Thursday, 28 November 2019 10:00 (30 minutes)

Presenter: SCHMIDT, Thomas Justus (Paul Scherrer Institut)

Session Classification: Thursday, 28 November 2019

Contribution ID: 17

Type: **not specified**

Large Systems Energy Storage

Thursday, 28 November 2019 11:00 (30 minutes)

Presenter: Prof. DÜREN, Michael (Univ. Giessen)

Session Classification: Thursday, 28 November 2019

Contribution ID: 18

Type: **not specified**

Realisation of a New Research Infrastructure in Belgium: MYRRHA

Thursday, 28 November 2019 12:00 (30 minutes)

Presenter: VAN DER BORGHT, Olivier (SCK-CEN)

Session Classification: Thursday, 28 November 2019

Contribution ID: 19

Type: **not specified**

Efficient infrastructure to run supercomputers and how the lesson learned can be applied to other scientific instruments

Thursday, 28 November 2019 11:30 (30 minutes)

Presenter: GILLY, Ladina (ETH Zurich)

Session Classification: Thursday, 28 November 2019

Contribution ID: 20

Type: **not specified**

Study of Surface effects in s.c. accelerator cavities using Muon spectroscopy

Thursday, 28 November 2019 14:30 (25 minutes)

Presenter: SUTER, Andreas (Paul Scherrer Institut)

Session Classification: Thursday, 28 November 2019

Contribution ID: 21

Type: **not specified**

Increasing the Energy Efficiency of Particle Accelerators by Using Superconducting Radio Frequency Niobium-3 Tin Cavities

Thursday, 28 November 2019 14:55 (25 minutes)

Presenter: PORTER, Ryan (Uni Cornell)

Session Classification: Thursday, 28 November 2019

Contribution ID: 22

Type: **not specified**

Shining X-rays on a reactor: a necessary step to rationally design or optimize (electro-)catalysts

Thursday, 28 November 2019 15:45 (25 minutes)

Presenter: NACHTEGAAL, Maarten (Paul Scherrer Institut)

Session Classification: Thursday, 28 November 2019

Contribution ID: 23

Type: **not specified**

Efficiency Considerations of Solid State Pulse Modulators

Thursday, 28 November 2019 16:40 (25 minutes)

Presenter: Prof. BIELA, Jürgen (ETH Zurich)

Session Classification: Thursday, 28 November 2019

Contribution ID: 24

Type: **not specified**

Energy management for national high magnetic field facility in Grenoble

Thursday, 28 November 2019 17:05 (25 minutes)

Presenter: DEBRAY, François (CNRS LNCMI)

Session Classification: Thursday, 28 November 2019

Contribution ID: 26

Type: **not specified**

Energy monitoring and heat recovery at DESY

Thursday, 28 November 2019 16:40 (25 minutes)

Presenter: JENSEN, Jens-Peter (DESY)

Session Classification: Thursday, 28 November 2019

Contribution ID: 27

Type: **not specified**

Challenges of a megawatt CW class solid state power amplifier for the SPS at CERN

Friday, 29 November 2019 08:55 (25 minutes)

Presenter: MONTESINOS, Eric (CERN)

Session Classification: Friday, 29 November 2019

Contribution ID: 28

Type: **not specified**

High current pulsed magnets for energy efficient beam transport systems

Friday, 29 November 2019 09:45 (25 minutes)

Presenter: Dr SPILLER, Peter (GSI)

Session Classification: Friday, 29 November 2019

Contribution ID: 29

Type: **not specified**

Energy Efficient helium-neon Refrigeration for FCC

Friday, 29 November 2019 08:55 (25 minutes)

Presenter: TAVIAN, Laurent

Session Classification: Friday, 29 November 2019

Contribution ID: **30**

Type: **not specified**

Recent studies on water consumption and improvements on cooling towers effluents

Friday, 29 November 2019 09:20 (25 minutes)

Presenter: Dr DELEVAL, Serge (CERN)

Session Classification: Friday, 29 November 2019

Contribution ID: 31

Type: **not specified**

Efficiency versus sobriety: optimized cryogenic design of stand-alone superconducting magnets

Friday, 29 November 2019 09:45 (25 minutes)

Presenter: Dr LEBRUN, Philippe (CERN)

Session Classification: Friday, 29 November 2019

Contribution ID: 32

Type: **not specified**

Ecological Diversity

Friday, 29 November 2019 11:10 (30 minutes)

Presenter: WELANDER, Thérèse (ESS)

Session Classification: Friday, 29 November 2019

Contribution ID: 33

Type: **not specified**

Energy Consumption and Sustainability of Operations at the Extreme Light Infrastructure

Thursday, 28 November 2019 14:55 (25 minutes)

Presenter: Mr WEEKS, Allen (ELI Delivery Consortium)

Session Classification: Thursday, 28 November 2019

Contribution ID: 35

Type: **not specified**

Compact Accelerator driven Neutron Source in European Landscape: Efficiency and sustainability aspects

Thursday, 28 November 2019 14:30 (25 minutes)

Presenter: Dr SORDO BALBIN, Fernando (ESS Bilbao)

Session Classification: Thursday, 28 November 2019

Contribution ID: 36

Type: **not specified**

Reducing Energy Costs and Environmental Impacts for Research Infrastructures - The SKA Case Study

Thursday, 28 November 2019 15:20 (25 minutes)

Summary

Presenter: SCHUTTE, Adrian (Jodrell Bank Observatory)

Session Classification: Thursday, 28 November 2019

Contribution ID: 37

Type: **not specified**

Lifecycle Assessment: Usefulness for and Applicability to Research Infrastructures

Friday, 29 November 2019 10:40 (30 minutes)

Presenter: MARGNI, Manuele (Polytechnique Montréal)

Session Classification: Friday, 29 November 2019

Contribution ID: **38**

Type: **not specified**

Summary Research

Friday, 29 November 2019 11:40 (15 minutes)

Presenter: WEEKS, Allen

Session Classification: Friday, 29 November 2019

Contribution ID: 39

Type: **not specified**

Summary Energy Management

Friday, 29 November 2019 11:55 (15 minutes)

Presenter: BOCCHETTA, Carlo (European Spallation Source ERIC)

Session Classification: Friday, 29 November 2019

Contribution ID: 40

Type: **not specified**

Summary Energy Efficient Technology

Friday, 29 November 2019 12:10 (15 minutes)

Presenter: LEHNER, Frank (DESY)

Session Classification: Friday, 29 November 2019

Contribution ID: 41

Type: **not specified**

Summary Cryogenic systems and conventional cooling

Friday, 29 November 2019 12:25 (15 minutes)

Presenter: CLAUDET, Serge (CERN)

Session Classification: Friday, 29 November 2019

Contribution ID: 42

Type: **not specified**

Closing Remarks

Friday, 29 November 2019 12:40 (20 minutes)

Presenter: SEIDEL, Mike (Paul Scherrer Institut)

Session Classification: Friday, 29 November 2019

Contribution ID: 43

Type: **not specified**

Information

Presenter: SEIDEL, Mike (Paul Scherrer Institut)

Contribution ID: 44

Type: **not specified**

Information

Thursday, 28 November 2019 13:00 (5 minutes)

Presenter: SEIDEL, Mike (Paul Scherrer Institut)

Session Classification: Thursday, 28 November 2019

Contribution ID: 45

Type: **not specified**

Closeout

Thursday, 28 November 2019 18:00 (40 minutes)

Session Classification: Thursday, 28 November 2019

Contribution ID: 46

Type: **not specified**

Closeout

Thursday, 28 November 2019 18:20 (20 minutes)

Session Classification: Thursday, 28 November 2019