

# **18th International Magnetic Measurement Workshop (IMMW18)**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Measurement challenges at CERN

*Monday, 3 June 2013 09:30 (30 minutes)*

**Primary author:** RUSSENSCHUCK, Stephan (CERN)

**Presenter:** RUSSENSCHUCK, Stephan

**Session Classification:** Overview 1

Contribution ID: 2

Type: **not specified**

## **Overview of the activities and challenges of the magnet section at the Paul Scherrer Institut**

*Monday, 3 June 2013 10:00 (30 minutes)*

**Primary author:** SANFILIPPO, Stephane (PSI)

**Presenter:** SANFILIPPO, Stephane (PSI)

**Session Classification:** Overview 1

Contribution ID: 3

Type: **not specified**

## Magnetic Measurements At SLAC

*Monday, 3 June 2013 11:00 (30 minutes)*

**Primary author:** WOLF, Zachary (SLAC)

**Presenter:** WOLF, Zachary (SLAC)

**Session Classification:** Overview 1

Contribution ID: 4

Type: **not specified**

## **Magnet Mass Production and Field Measurements Results for TPS**

*Monday, 3 June 2013 11:30 (30 minutes)*

**Primary author:** HWANG, Ching-Shiang (NSRRC)

**Co-authors:** CHANG, C. H. (NSRRC); YANG, C. S. (NSRRC); KUO, C. Y. (NSRRC); LIN, F. Y. (NSRRC); CHEN, H. H. (NSRRC); HUANG, H. M. (NSRRC); JAN, J. C. (NSRRC)

**Presenter:** HWANG, Ching-Shiang (NSRRC)

**Session Classification:** Overview 1

Contribution ID: 5

Type: **not specified**

## **Measurement of the Superconducting Magnets for the XFEL Project at DESY**

*Monday, 3 June 2013 12:00 (30 minutes)*

**Primary author:** BRUECK, Heiner (DESY)

**Presenter:** BRUECK, Heiner (DESY)

**Session Classification:** Overview 1

Contribution ID: 6

Type: **not specified**

## **Magnets for a new low emittance storage ring at The ESRF**

*Monday, 3 June 2013 14:30 (30 minutes)*

**Primary author:** CHAVANNE, Joel (ESRF)

**Co-authors:** BOUTELLE, F. (ESRF); LE BEC, Gael (ESRF); N'GOTTA, Patrick (ESRF)

**Presenter:** CHAVANNE, Joel (ESRF)

**Session Classification:** Overview 2

Contribution ID: 7

Type: **not specified**

## **Magnetic measurements at ALBA: General status.**

*Monday, 3 June 2013 15:00 (30 minutes)*

**Primary author:** CAMPMANY, Josep (ALBA)

**Presenter:** CAMPMANY, Josep (ALBA)

**Session Classification:** Overview 2



Contribution ID: 8

Type: **not specified**

## **Magnet measurements for the JLab 12GeV upgrade**

*Monday, 3 June 2013 15:30 (30 minutes)*

**Primary author:** BAGETT, KEN (TJNAF)

**Presenter:** BAGETT, Ken (TJNAF)

**Session Classification:** Overview 2

Contribution ID: 9

Type: **not specified**

## Update on Metrolab's new developments

*Monday, 3 June 2013 16:30 (30 minutes)*

**Primary author:** KELLER, Philip (Metrolab)

**Presenter:** KELLER, Philip (Metrolab)

**Session Classification:** Overview 2

Contribution ID: **10**

Type: **not specified**

## **Measurement challenges for the CLIC study**

*Tuesday, 4 June 2013 09:00 (30 minutes)*

**Primary author:** GARCIA PEREZ, Juan (CERN)

**Presenter:** GARCIA PEREZ, Juan (CERN)

**Session Classification:** Overview 3

Contribution ID: **11**

Type: **not specified**

## Overview of LBNL magnetic measurement activities

**Primary author:** MADUR, Arnaud (LBNL)

**Presenter:** MADUR, Arnaud (LBNL)

Contribution ID: 12

Type: **not specified**

## Overview of magnetic measurements at Danfysik

*Tuesday, 4 June 2013 09:30 (30 minutes)*

**Primary author:** OSTENFELD, Christopher (Danfysik)

**Presenter:** OSTENFELD, Christopher (Danfysik)

**Session Classification:** Overview 3

Contribution ID: 13

Type: **not specified**

## **DC&AC Magnetic Field Measurement of the CSNS/RCS Quadrupole Magnet**

**Primary author:** ZHOU, Jianxin

**Presenter:** ZHOU, Jianxin (IHEP)

Contribution ID: 14

Type: **not specified**

## **Magnetic measurement of superconducting magnets with the FAME system**

*Tuesday, 4 June 2013 11:30 (30 minutes)*

**Primary author:** FISCARELLI, Lucio (CERN)

**Co-authors:** DEFERNE, Guy (CERN); WALCKIERS, L. (CERN); DUNKEL, Olaf (CERN); ARPAIA, Pasquale (CERN)

**Presenter:** FISCARELLI, Lucio

**Session Classification:** Measurement Reports 1

Contribution ID: 15

Type: **not specified**

## Mu2e Magnetic Measurements

*Tuesday, 4 June 2013 12:00 (30 minutes)*

**Primary author:** BUEHLER, Marc (Fermilab)

**Presenter:** BUEHLER, Marc (Fermilab)

**Session Classification:** Measurement Reports 1



Contribution ID: 16

Type: **not specified**

## **Magnetic Measurements of MEDAUSTRON Quadrupole Magnets and Comparison with CERN Measurements**

*Tuesday, 4 June 2013 11:00 (30 minutes)*

**Primary author:** LERAY, Marie-Julie (SigmaPhi)

**Presenter:** LERAY, Marie-Julie (Sigma Phi)

**Session Classification:** Measurement Reports 1

Contribution ID: 17

Type: **not specified**

## **Status of the magnetic measurements for the MedAustron project**

*Tuesday, 4 June 2013 10:00 (30 minutes)*

**Primary author:** GOLLUCCIO, Giancarlo (CERN)

**Co-authors:** BEAUMONT, A. (CERN); VOROZHTSOV, A.; STOCKNER, M. (CERN); BUZIO, Marco (CERN); CHRITIN, R. (CERN)

**Presenter:** GOLLUCCIO, Giancarlo (MedAustron)

**Session Classification:** Overview 3

Contribution ID: **18**

Type: **not specified**

## **Recent advances in pulsed-mode measurements at CERN**

*Tuesday, 4 June 2013 14:00 (30 minutes)*

**Primary author:** CHRITIN, Regis (CERN)

**Co-authors:** BEAUMONT, A. (CERN); GILTEAUX, D. (CERN); OBERSON, D. (CERN); GOLLUCIO, G. (CERN); BUZIO, Marco (CERN); SELVA, V. della (CERN)

**Presenter:** CHRITIN, Regis (CERN)

**Session Classification:** Measurement Reports 2

Contribution ID: **19**

Type: **not specified**

## **Measurements of MAX-IV girder systems**

*Tuesday, 4 June 2013 14:30 (30 minutes)*

**Primary author:** OSTENFELD, Christopher (Danfysik)

**Presenter:** OSTENFELD, Christopher (Danfysik)

**Session Classification:** Measurement Reports 2

Contribution ID: 20

Type: **not specified**

## **Review of production measurements by BSL for NSLS-II storage ring magnets**

**Primary author:** JONES, Tobin (Buckley Systems)

**Presenter:** JONES, Tobin (Buckley Systems)

Contribution ID: 21

Type: **not specified**

## **Production Measurements for NSLS-II: Lessons Learned**

*Tuesday, 4 June 2013 15:00 (30 minutes)*

**Primary author:** JAIN, Animesh (BNL)

**Presenter:** JAIN, Animesh (BNL)

**Session Classification:** Measurement Reports 2

Contribution ID: 22

Type: **not specified**

## **Novel Design of a Miniature Highly Accurate Three-Axis Hall Sensor**

*Tuesday, 4 June 2013 17:00 (30 minutes)*

**Primary author:** WOUTERS, Christina (PSI)

**Presenter:** WOUTERS, Christina (PSI)

**Session Classification:** Hall/NMR

Contribution ID: 23

Type: **not specified**

## The details of Senis Hall probe calibration limitations

*Tuesday, 4 June 2013 16:30 (30 minutes)*

**Primary author:** VASSERMAN, Isaac (Argonne)

**Co-authors:** XU, Joseph (Argonne); STRELNIKOV, Nikita (Argonne)

**Presenter:** VASSERMAN, Isaac (Argonne)

**Session Classification:** Hall/NMR



Contribution ID: 24

Type: **not specified**

## **Looking for a Hall probe bench for closed big magnetic structures**

*Tuesday, 4 June 2013 16:00 (30 minutes)*

**Primary author:** CAMPMANY, Josep (ALBA)

**Presenter:** CAMPMANY, Josep (ALBA)

**Session Classification:** Hall/NMR

Contribution ID: 25

Type: **not specified**

## The theory of the vibrating wire system

*Wednesday, 5 June 2013 09:00 (30 minutes)*

**Primary author:** RUSSENSCHUCK, Stephan (CERN)

**Co-authors:** PETRONE, C. (CERN); BUZIO, Marco (CERN); KOESTER, O. (CERN)

**Presenter:** RUSSENSCHUCK, Stephan (CERN)

**Session Classification:** Wire Based Measurements

Contribution ID: 26

Type: **not specified**

## **Single-stretched wire and vibrating-wire measurements at CERN**

*Wednesday, 5 June 2013 09:30 (30 minutes)*

**Primary author:** DEFERNE, Guy (CERN)

**Co-authors:** PETRONE, C. (CERN); GARCIA PEREZ, Juan (CERN); WALCKIERS, Louis (CERN); ARPAIA, Pasquale (CERN); RUSSENSCHUCK, Stephan (CERN)

**Presenter:** DEFERNE, Guy (CERN)

**Session Classification:** Wire Based Measurements

Contribution ID: 27

Type: **not specified**

## Stretched wire measurements of magnet girders

*Wednesday, 5 June 2013 10:00 (30 minutes)*

**Primary author:** LE BEC, Gael (ESRF)

**Presenter:** LE BEC, Gael

**Session Classification:** Wire Based Measurements

Contribution ID: 28

Type: **not specified**

## **Measurements of SOLEIL insertion devices using the pulsed wire method**

*Wednesday, 5 June 2013 11:00 (30 minutes)*

**Primary author:** VALLEAU, Mathieu (SOLEIL)

**Presenter:** VALLEAU, Mathieu (SOLEIL)

**Session Classification:** Insertion Devices 1

Contribution ID: 29

Type: **not specified**

## **Using an in-situ field measurement system to measure the magnetic field of the in-vacuum undulator**

*Wednesday, 5 June 2013 11:30 (30 minutes)*

**Primary author:** YANG, Chin-Kang (NSRRC)

**Presenter:** YANG, Chin-Kang (NSRRC)

**Session Classification:** Insertion Devices 1

Contribution ID: 30

Type: **not specified**

## **Investigation of the Earth Field Effect on the Insertion Device performance at the Advanced Photon Storage Ring**

*Thursday, 6 June 2013 09:00 (30 minutes)*

**Primary author:** VASSERMAN, Isaac (Argonne)

**Co-author:** STRELNIKOV, Nikita (Argonne)

**Presenter:** VASSERMAN, Isaac (Argonne)

**Session Classification:** Insertion Devices 2

Contribution ID: 31

Type: **not specified**

## **Magnetic Measurement Results of the first APS Superconducting Undulator**

*Thursday, 6 June 2013 11:00 (30 minutes)*

**Primary author:** DOOSE, Chuck (Argonne)

**Presenter:** DOOSE, Chuck (Argonne)

**Session Classification:** Insertion Devices 3



Contribution ID: 32

Type: **not specified**

## **Magnetic measurements and tuning of FLASH II undulators**

*Thursday, 6 June 2013 09:30 (30 minutes)*

**Primary author:** VAGIN, Pavel (DESY)

**Presenter:** VAGIN, Pavel (DESY)

**Session Classification:** Insertion Devices 2

Contribution ID: 33

Type: **not specified**

## The Tuning of APPLE Device with Shimming

*Thursday, 6 June 2013 10:00 (30 minutes)*

**Primary author:** ABLIZ, Melike (Argonne)

**Co-author:** VASSERMAN, Isaac (Argonne)

**Presenter:** ABLIZ, Melike (Argonne)

**Session Classification:** Insertion Devices 2

Contribution ID: 34

Type: **not specified**

## Long Term Monitoring of the LCLS-I Undulators

*Thursday, 6 June 2013 11:30 (30 minutes)*

**Primary author:** LEVASHOV, Yuri (SLAC)

**Presenter:** LEVASHOV, Yuri (SLAC)

**Session Classification:** Insertion Devices 3

Contribution ID: 35

Type: **not specified**

## **Magnetic Field Measurement Devices for Superconducting Undulator Coils at ANKA**

*Thursday, 6 June 2013 14:30 (30 minutes)*

**Primary author:** GROU, Andreas (Karlsruhe)

**Co-authors:** SAEZ DE JAUREGUI, D. (Karlsruhe); GLAMANN, N. (Karlsruhe); CASALBUONI, S. (Karlsruhe); GERSTL, S. (Karlsruhe); HOLUBEK, T. (Karlsruhe)

**Presenter:** GRAU, Andreas (Karlsruhe)

**Session Classification:** Instruments 1

Contribution ID: 36

Type: **not specified**

## **Standardization of the CERN Equipment to cope with the Magnetic Measurement Requests from a Variety of Accelerator Projects**

*Thursday, 6 June 2013 15:30 (30 minutes)*

**Primary author:** DUNKEL, Olaf (CERN)

**Co-authors:** BEAUMONT, A. (CERN); GOLLUCIO, G. (CERN); GABORIT, L. (CERN); EBBENI, M. (CERN); BELTRON, R. (CERN)

**Presenter:** DUNKEL, Olaf (CERN)

**Session Classification:** Instruments 1

Contribution ID: 37

Type: **not specified**

## **A 100-ppm Cryogenic DC Current Transformer for 100-kA Superconducting Cable Testing**

*Thursday, 6 June 2013 16:30 (30 minutes)*

**Primary author:** ARPAIA, Pasquale (CERN)

**Co-authors:** BALLARINO, A. (CERN); MONTENERO, G. (CERN); BOTTURA, L. (CERN)

**Presenter:** ARPAIA, Pasquale (CERN)

**Session Classification:** Instruments 1

Contribution ID: **38**

Type: **not specified**

## **Preliminary metrological characterization of the Fast Digital Integrator FDI-V5**

*Thursday, 6 June 2013 17:00 (30 minutes)*

**Primary author:** FISCARELLI, Lucio (CERN)

**Co-authors:** WALCKIERS, L. (CERN); ARPAIA, Pasquale (CERN)

**Presenter:** FISCARELLI, Lucio (CERN)

**Session Classification:** Instruments 1

Contribution ID: 39

Type: **not specified**

## Multimode Digital integrators with rigid triggering

*Thursday, 6 June 2013 17:30 (30 minutes)*

**Primary author:** VAGIN, Pavel (DESY)

**Co-authors:** BATRAKOV, A. (BINP); PAVLENKO, A. (BINP); SHICHKOV, D. (BINP); ILYIN, I. (BINP)

**Presenter:** VAGIN, Pavel (DESY)

**Session Classification:** Instruments 1



Contribution ID: 40

Type: **not specified**

## **Application of PCB and FDM Technologies for Magnetic Measurement Probe Development**

*Friday, 7 June 2013 09:30 (30 minutes)*

**Primary author:** DIMARCO, Joseph (Fermilab)

**Presenter:** DIMARCO, Joseph (Fermilab)

**Session Classification:** Instruments 2

Contribution ID: 41

Type: **not specified**

## **Calibration and performance of the rotating coil system for CERN Linac4 quadrupoles**

**Primary author:** BUZIO, Marco (CERN)

**Co-authors:** GILOTEAUX, D. (CERN); GOLLUCCIO, G. (CERN); DUNKEL, Olaf (CERN); BELTRON, R. (CERN); KASAEI, S. (CERN)

**Presenter:** BUZIO, Marco (CERN)

Contribution ID: 42

Type: **not specified**

## **A flipping-coil field measurement system for the CSNS/RCS dipole magnet**

*Friday, 7 June 2013 11:00 (30 minutes)*

**Primary author:** YANG, Mei (IHEP)

**Co-authors:** GUI YIN, Bao (IHEP); CHEN, Wan (IHEP); KANG, Wen (IHEP)

**Presenter:** YANG, Mei (IHEP)

**Session Classification:** Instruments 2

Contribution ID: 43

Type: **not specified**

## Safety and health impact of magnetic fields

*Friday, 7 June 2013 11:30 (30 minutes)*

**Primary author:** BUZIO, Marco (CERN)

**Presenter:** BUZIO, Marco (CERN)

**Session Classification:** Instruments 2

Contribution ID: 44

Type: **not specified**

## Close Out

*Friday, 7 June 2013 12:00 (30 minutes)*

**Session Classification:** Instruments 2

Contribution ID: 45

Type: **not specified**

# Welcome

*Monday, 3 June 2013 09:00 (15 minutes)*

**Primary author:** WANDERER, Peter (BNL)

**Presenter:** WANDERER, Peter (BNL)

**Session Classification:** Welcome and Opening Remarks

Contribution ID: 46

Type: **not specified**

## Opening Remarks

*Monday, 3 June 2013 09:15 (15 minutes)*

**Primary author:** JAIN, Animesh (BNL)

**Presenter:** JAIN, Animesh (BNL)

**Session Classification:** Welcome and Opening Remarks

Contribution ID: 47

Type: **not specified**

## **Real-time magnetic field control applications at CERN: an update**

*Friday, 7 June 2013 10:00 (30 minutes)*

**Primary author:** BUZIO, Marco (CERN)

**Co-authors:** GILOTEAUX, D (CERN); OBERSON, D (CERN)

**Presenter:** BUZIO, Marco (CERN)

**Session Classification:** Instruments 2



Contribution ID: 48

Type: **not specified**

## **DC&AC Magnetic Field Measurement of the CSNS/RCS Quadrupole Magnet**

*Thursday, 6 June 2013 15:00 (30 minutes)*

**Presenter:** ZHOU, Jianxin (IHEP, China)

**Session Classification:** Instruments 1