

1st Workshop on Accelerator Magnets in HTS



Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome & Scope

Wednesday 21 May 2014 09:00 (15 minutes)

Presenter: ROSSI, Lucio (CERN)

Session Classification: I. Objectives and Coated Conductors (CC) overview

Contribution ID: 1

Type: **not specified**

The FCC Magnet Program: opportunities for HTS (25' + 5')

Wednesday 21 May 2014 09:15 (30 minutes)

Presenter: BOTTURA, Luca (CERN)

Session Classification: I. Objectives and Coated Conductors (CC) overview

Contribution ID: 2

Type: **not specified**

EuCARD2 Magnet Objectives and Main Challenges (25'+5')

Wednesday 21 May 2014 09:45 (30 minutes)

Presenters: KIRBY, Glyn (CERN); DURANTE, Maria (CEA Saclay)

Session Classification: I. Objectives and Coated Conductors (CC) overview

Contribution ID: 3

Type: **not specified**

Overview and Synergies of HTS Magnet Programs (25'+5')

Wednesday 21 May 2014 10:45 (30 minutes)

Presenter: LARBALESTIER, David (National High Magnetic Field Laboratory)

Session Classification: I. Objectives and Coated Conductors (CC) overview

Contribution ID: 4

Type: **not specified**

Outstanding Issues of HTS for High Quality Magnets (25'+5')

Wednesday 21 May 2014 11:15 (30 minutes)

Presenter: MAEDA, Hideaki (RIKEN)

Session Classification: I. Objectives and Coated Conductors (CC) overview

Contribution ID: 5

Type: **not specified**

CC Lay-out Overview: Pros and Cons (25'+5')

Wednesday 21 May 2014 11:45 (30 minutes)

Presenter: OBRADORS, Xavier (Barcelona University)

Session Classification: I. Objectives and Coated Conductors (CC) overview

Contribution ID: 6

Type: **not specified**

HTS development of EuCARD-2 conductor and industrialization at BHTS (30'+5')

Wednesday 21 May 2014 14:00 (35 minutes)

Presenter: USOSKIN, Alexander (Bruker HTS GmbH)

Session Classification: II. Industry of HTS Tapes: performance, length, yield, width. Is it possible to think of round wire? What is now, in 2 years and in 5 years?

Contribution ID: 7

Type: **not specified**

HTS development and industrialization at Superpower (25'+5')

Wednesday 21 May 2014 14:35 (30 minutes)

Presenter: HAZELTON, Drew (S)

Session Classification: II. Industry of HTS Tapes: performance, length, yield, width. Is it possible to think of round wire? What is now, in 2 years and in 5 years?

Contribution ID: 8

Type: **not specified**

HTS development and industrialization at Fujikura (25'+5')

Wednesday 21 May 2014 15:05 (30 minutes)

Presenter: NEWMAN, Tom (Fujikura)

Session Classification: II. Industry of HTS Tapes: performance, length, yield, width. Is it possible to think of round wire? What is now, in 2 years and in 5 years?

Contribution ID: 9

Type: **not specified**

HTS development and industrialization at Sumitomo (25'+5')

Wednesday 21 May 2014 15:35 (30 minutes)

Presenter: KINOSHITA, Kan (Sumitomo)

Session Classification: II. Industry of HTS Tapes: performance, length, yield, width. Is it possible to think of round wire? What is now, in 2 years and in 5 years?

Contribution ID: **10**

Type: **not specified**

HTS development and industrialization at Sunam (25'+5')

Wednesday 21 May 2014 16:25 (30 minutes)

Presenter: MOON, Seung Hyun (Sunam)

Session Classification: II. Industry of HTS Tapes: performance, length, yield, width. Is it possible to think of round wire? What is now, in 2 years and in 5 years?

Contribution ID: 11

Type: **not specified**

HTS development and industrialization at SuperOx (25'+5')

Wednesday 21 May 2014 16:55 (30 minutes)

Presenter: MOLODYK, Alexander (SuperOx)

Session Classification: II. Industry of HTS Tapes: performance, length, yield, width. Is it possible to think of round wire? What is now, in 2 years and in 5 years?

Contribution ID: 12

Type: **not specified**

Roebel cable industrial optimization - General Cable Superconductors (25'+5')

Wednesday 21 May 2014 17:25 (30 minutes)

Presenter: LONG, Nicholas (V)

Session Classification: II. Industry of HTS Tapes: performance, length, yield, width. Is it possible to think of round wire? What is now, in 2 years and in 5 years?

Contribution ID: 13

Type: **not specified**

Panel Discussion

Wednesday 21 May 2014 17:55 (35 minutes)

Presenters: COOLEY, Lance (FNAL); BOTTURA, Luca (CERN)

Session Classification: II. Industry of HTS Tapes: performance, length, yield, width. Is it possible to think of round wire? What is now, in 2 years and in 5 years?

Contribution ID: 14

Type: **not specified**

The FCC Study (25'+5')

Thursday 22 May 2014 09:00 (30 minutes)

Presenter: BENEDIKT, Michael (CERN)

Session Classification: Special Event: FCC

Contribution ID: 15

Type: **not specified**

Conductor on Round Core cable development for accelerator magnets (25'+5')

Thursday 22 May 2014 14:30 (30 minutes)

Presenter: VAN DER LAAN, Danko (A)

Session Classification: IV. Cables: discussion on overall J limitation, transverse stress tolerance, M, coupling currents and transposition

Contribution ID: 16

Type: **not specified**

Development of high current HTS conductors for Fusion at CRPP (20'+5')

Thursday 22 May 2014 15:00 (25 minutes)

Presenter: UGLIETTI, Davide (EPFL)

Session Classification: IV. Cables: discussion on overall J limitation, transverse stress tolerance, M, coupling currents and transposition

Contribution ID: 17

Type: **not specified**

Development of REBCO Twisted Stacked-Tape Cables for Magnet Applications (20'+5')

Thursday 22 May 2014 15:25 (25 minutes)

Presenter: TAKAYASU, Makoto

Session Classification: IV. Cables: discussion on overall J limitation, transverse stress tolerance, M, coupling currents and transposition

Contribution ID: **18**

Type: **not specified**

Slotted core HTS Cable-in-Conduit conductor by industrially feasible process for high current applications: manufacturing and analysis (20'+5')

Thursday 22 May 2014 15:50 (25 minutes)

Presenter: CELENTANO, Giuseppe

Session Classification: IV. Cables: discussion on overall J limitation, transverse stress tolerance, M, coupling currents and transposition

Contribution ID: **19**

Type: **not specified**

Cable (20'+5')

Thursday 22 May 2014 16:45 (25 minutes)

Presenter: BADEL, Arnaud (CNRS)

Session Classification: IV. Cables: discussion on overall J limitation, transverse stress tolerance, M, coupling currents and transposition

Contribution ID: 20

Type: **not specified**

Properties of HTS-Roebel cables and the approach for EuCARD-2 (25'+5')

Thursday 22 May 2014 17:10 (30 minutes)

Presenter: GOLDACKER, Wilfried

Session Classification: IV. Cables: discussion on overall J limitation, transverse stress tolerance, M, coupling currents and transposition

Contribution ID: **21**

Type: **not specified**

Discussion

Thursday 22 May 2014 17:40 (35 minutes)

Session Classification: IV. Cables: discussion on overall J limitation, transverse stress tolerance, M, coupling currents and transposition

Contribution ID: 22

Type: **not specified**

Overview of CC critical surface for EuCARD-2 (25'+5')

Thursday 22 May 2014 09:30 (30 minutes)

Presenter: SENATORE, Carmine (University of Geneva)

Session Classification: III. Cables: Properties of Coated Conductors and Tapes

Contribution ID: 23

Type: **not specified**

Magnetization modelling and measurements (25'+5')

Thursday 22 May 2014 11:30 (30 minutes)

Presenter: AMEMIYA, Naoyuki (Kyoto University)

Session Classification: III. Cables: Properties of Coated Conductors and Tapes

Contribution ID: 24

Type: **not specified**

Ic vs strain, MQE and M evaluation (25'+5')

Thursday 22 May 2014 10:30 (30 minutes)

Presenter: DHALLE, Marc

Session Classification: III. Cables: Properties of Coated Conductors and Tapes

Contribution ID: 25

Type: **not specified**

Review of I_c variation, R_c , RRR and other parameters (25'+5')

Thursday 22 May 2014 10:00 (30 minutes)

Presenter: ABRAIMOV, Dmytro (N)

Session Classification: III. Cables: Properties of Coated Conductors and Tapes

Contribution ID: 26

Type: **not specified**

Mechanical properties of Roebler (20'+5')

Thursday 22 May 2014 12:25 (25 minutes)

Presenter: KARIO, Anna (K)

Session Classification: III. Cables: Properties of Coated Conductors and Tapes

Contribution ID: 27

Type: **not specified**

Design parameter space of Roebble cable (20'+5')

Thursday 22 May 2014 12:00 (25 minutes)

Presenters: BALLARINO, Amalia (CERN); FLEITER, Jerome (CERN)

Session Classification: III. Cables: Properties of Coated Conductors and Tapes

Contribution ID: 28

Type: **not specified**

Strain measurements and Ic effect (20'+5')

Thursday 22 May 2014 12:50 (25 minutes)

Presenter: SUGANO, Michinaka (High Energy Accelerator Research Organization (JP))

Session Classification: III. Cables: Properties of Coated Conductors and Tapes

Contribution ID: 29

Type: **not specified**

VUW (20'+5')

Contribution ID: 30

Type: **not specified**

Powder Optimization (15'+5')

Presenter: RIKEL, Mark (Nexans SuperConductors)

Contribution ID: 31

Type: **not specified**

Bi-2212 round wire development and industrialization at OST (25'+5')

Friday 23 May 2014 08:45 (30 minutes)

Presenter: HUANG, Yibing (Oxford Superconducting Technology)

Session Classification: V. Bi-2212 - I

Contribution ID: 32

Type: **not specified**

Optimization parameters space (best performance and compromise) (25'+5')

Friday 23 May 2014 09:15 (30 minutes)

Presenter: HELLSTROM, Eric

Session Classification: V. Bi-2212 - I

Contribution ID: 33

Type: **not specified**

Wire critical surface and cable properties (25'+5')

Friday 23 May 2014 09:45 (30 minutes)

Presenter: GODEKE, Arno (Lawrence Berkeley National Laboratory)

Session Classification: V. Bi-2212 - I

Contribution ID: 34

Type: **not specified**

Fermi program of optimizing Bi-2212 conductor (25'+5')

Friday 23 May 2014 10:35 (30 minutes)

Presenter: COOLEY, Lance

Session Classification: V. Bi-2212 - I

Contribution ID: 35

Type: **not specified**

Alternative Bi-2212 fabrication methods (25'+5')

Friday 23 May 2014 13:30 (30 minutes)

Presenter: MALAGOLI, Andrea

Session Classification: VI. Bi-2212 - II

Contribution ID: 36

Type: **not specified**

Conclusions, next WAMHTS (10'+5')

Friday 23 May 2014 14:20 (25 minutes)

Presenter: ROSSI, Lucio (CERN)

Session Classification: VI. Bi-2212 - II

Contribution ID: 37

Type: **not specified**

Bi-2212 magnet program at LBNL (15'+5')

Friday 23 May 2014 14:00 (20 minutes)

Presenter: GODEKE, Arno (Lawrence Berkeley National Laboratory)

Session Classification: VI. Bi-2212 - II

Contribution ID: 38

Type: **not specified**

Progress in high pinning tape (25'+5')

Presenter: VENKAT, Selvamanickam (University of Houston)

Contribution ID: 39

Type: **not specified**

Superconducting Magnets R&D in the 10-20 T range for energy frontier machines

Friday 23 May 2014 11:30 (45 minutes)

Presenter: ROSSI, Lucio (CERN)

Session Classification: Special Event: DESY ARD Lunch Seminar

Contribution ID: 40

Type: **not specified**

Questions in the room

Friday 23 May 2014 12:15 (15 minutes)

Session Classification: Special Event: DESY ARD Lunch Seminar