Monday, June 10

Attendees Arrival and Registration Check-in (16:00 - 19:00)

Tuesday, June 11

Talk ID#	Time	Minutes	Presenter First & Last Name	Presenter Affiliation	Presentation Title		Abstract ID#
	8:00	15	Najib Cheggour	ASC-NHMFL-FSU, USA	Opening Remarks		
Session 1: Nb_3Sn, Nb_3Al, and MgB_2 Conductors & Cables — Updates and General Properties **Chairs: TBD**							
TuM-01	8:15	30	**Simon C. Hopkins**	CERN, Switzerland	Nb_3Sn Wire performance and prospects for energy-frontier accelerator magnet applications	**Invited**	019
TuM-02	8:55	20	GianMarco Bovone	University of Geneva, Switzerland	Grain-boundary and oxide-nanoparticle contributions to the layer J_c of internally oxidized Nb_3Sn wires		030
TUM-03	9:25	30	**Akihiro Kikuchi**	NIMS, Japan	The Ultrafine superconducting wires and bundled cables	**Invited**	014
	10:05	10	**COFFEE BREAK**				
Session 2: Nb_3Sn and MgB_2 Conductors & Cables — Electromechanical Properties **Chairs: TBD**							
TuM-04	10:15	20	Najib Cheggour	ASC-NHMFL-FSU, USA	Surveying the irreversible strain limit and microstructure of multiple RRP® Nb_3Sn wires in light of the δ-CuSn phase disease		031
TuM-05	10:45	20	Mio Nakamoto	KEK, Japan	Neutron diffraction measurements of transverse compression effects on Cu-Nb reinforcement for bronze route Nb_3Sn wires		038
TuM-06	11:15	30	**Carmine Senatore**	University of Geneva, Switzerland	Stress tolerance and degradation mechanisms of accelerator-grade Nb_3Sn wires under transverse compression	**Invited**	017
TuM-07	11:55	20	Shutaro Machiya	Daido University, Japan	Measurement of mechanical behavior of 11B enriched MgB_2 wire using pulsed neutron source		040
	12:30	90	**LUNCH (provided)**				
Session 3: Nb_3Sn Cables and Magnets — Design & Testing **Chairs: TBD**							
TuA-08	14:00	30	**Giorgio Vallone**	LBNL, USA	Assessing the impact of multi-axial loads on the performance of Nb_3Sn coils for particle accelerator magnets	**Invited**	003
TuA-09	14:40	30	**Peter McIntyre**	Texas A&M University, USA	Structured cable-in-conduit for stress management in high-field dipoles	**Invited**	009
TuA-10	15:20	20	Satoshi Awaji	HFLSM, Tohoku University, Japan	Electromechanical behaviors of CuNb/Nb_3Sn Rutherford Cables and Coils for High Field Cryogen-free Superconducting Magnet		026
	15:50	15	**COFFEE BREAK**				
TuA-11	16:05	30	**Alice Moros**	CERN, Switzerland	Unveiling root causes of Nb_3Sn coil performance limitations for a reliable fabrication of HL-LHC magnets	**Invited**	007
TuA-12	16:45	20	Giorgio Ambrosio	FNAL, USA	Lessons Learned from Fabrication and Test of 13 Nb_3Sn Quadrupoles for the High Luminosity Large Hadron Collider		004
TuA-13	17:15	20	Maria Baldini	FNAL, USA	Development and test of a large-aperture Nb_3Sn cos-theta dipole coil with stress management		045
Session 4: Nb_3Sn — Linking Conductor Electro-Mechanical Properties to Magnet Performances **Chairs: TBD**							
	17:45	45	**General Discussion on Nb_3Sn Conductors & Magnets**				
	18:30		**END of DAY 1**				
			DINNER (on your own)				

Wednesday, June 12

Talk ID#	Time	Minutes	Presenter First & Last Name	Presenter Affiliation	Presentation Title		Abstract ID#
	8:00	10	Najib Cheggour	ASC-NHMFL-FSU, USA	Opening Remarks		
Session 5: Bi-2212 Conductors & Cables — Electromechanical Properties **Chairs: TBD**							
WeM-01	8:10	20	Najib Cheggour	ASC-NHMFL-FSU, USA	Densification effects on critical-current dependence on longitudinal strain in $Bi_2Sr_2CaCu_2O_{8+x}$ round wires		029
WeM-02	8:40	20	Arend Nijhuis	University of Twente, The Netherlands	Critical Current under transverse pressure in impregnated Bi-2212 Rutherford cables up to 200 MPa and 11 T at 4.2 K		044
WeM-03	9:10	30	**Alex Otto**	Solid Material Solutions, USA	Bi2212 with reinforcement, electrical performance and loss to meet the requirements for specific coil applications	**Invited**	032
	9:50	20	**COFFEE BREAK**				
Session 6: Bi-2212 Magnets — Design & Testing **Chairs: TBD**							
WeM-04	10:10	20	Emma Martin	ASC-NHMFL-FSU, USA	Investigating Reinforcement Methods for Bi-2212 Magnets		042
WeM-05	10:40	20	Meng-Liang Zhou	Chinese Academy of Science, China	The performance of first CICC-type Bi-2212 insert magnet under 20 T		012
Session 7: Bi-2223 Conductors, Cables & Magnets — Electromechanical Properties **Chairs: TBD**							
WeM-06	11:10	20	Gen Nishijima	NIMS, Japan	Superconducting magnet for magnetic refrigeration system		039
WeM-07	11:40	20	Ioseb R. Metskhvarishvili	Georgian Technical University, Giorgia	Improvement of phase formation and critical current density in Bi-2223 HTS materials with the addition of Antimony trioxide		028
	12:10	90	**LUNCH (provided)**				
Session 8: ReBCO Coated Conductors **Chairs: TBD**							
WeA-08	13:40	30	**Bernardo Bordini**	CERN, Switzerland	The superconducting magnets of the Muon Collider – a study case for a future HEP machine	**Invited**	043
WeA-09	14:20	20	Xiaodong Li	Technische Universität München, Germany	REBCO coated conductors for high-field fusion: state-of-the-art, challenges and perspectives		027
WeA-10	14:50	20	Jiamin Zhu	Shanghai Superconductor	The progress of the REBCO tapes in Shanghai Superconductor Technology Co. Ltd.		002
WeA-11	15:20	20	Maxim Marchevsky	LBNL, USA	Defect mapping and quench propagation velocity measurements in HTS conductors using Hall array magnetometry		021
WeA-12	15:50	20	Alex Otto	Solid Material Solutions, USA	Lamination reinforcement of HTS tapes to enable much broader and more cost-effective utilization in key applications		035
WeA-13	16:20	20	Zili Zhang	Chinese Academy of Science, China	Exploration of the possible dominant factor on mechanical properties of the metallic substrate of commercial REBCO tape from different manufacturers		013
	16:50	10	**COFFEE BREAK**				
	17:00 - 19:00		**EXCURSION: WALK to the SPOKANE FALLS — HUNTINGTON PARK & SKYRIDE GONDOLA (RIDES VOLUNTARY) — MEM24 GROUP PHOTOGRAPH**				
	19:00 - 22:00		**MEM24 BANQUET at the DAVENPORT GRAND VENUE**				
	22:00		**END of DAY 2**				

Thursday, June 13

Talk ID#	Time	Minutes	Presenter First & Last Name	Presenter Affiliation	Presentation Title		Abstract ID#
	8:00	10	Najib Cheggour	ASC-NHMFL-FSU, USA	Opening Remarks		
Session 9a: ReBCO Coated Conductors— Electromechanical Properties **Chairs: TBD**							
ThM-01	8:10	20	Iole Falorio	SuperPower Inc., USA	Study of a novel hybrid slitting method for REBCO tapes and edge cracks propagation analysis		015
ThM-02	8:40	30	**Hyung-Seop Shin**	Andong National University, South Korea	Evaluation of the edge-Cu Layer effect on delamination strength for various Cu-Stabilized REBCO tapes using the anvil test method	**Invited**	022
ThM-03	9:20	20	Qi Yuan	Wuhan National High Magnetic Field Center,	Effects of DC fields and pulsed fields on the strain dependence of critical properties of REBCO		016
	9:50	10	**COFFEE BREAK**				
Session 9b: ReBCO Coated Conductors— Electromechanical Properties **Chairs: TBD**							
ThM-04	10:00	20	Takanobu Kiss	Kyushu University, Japan	Development of a continuous bending test setup for REBCO coated conductors applicable to a small bending diameter region less than 10 mm		034
ThM-05	10:30	20	Kozo Osamura	RIAS, Japan	Bending Strain Dependence of Critical Current in HT- SC Wires		005
ThM-06	11:00	20	Rastislav Ries	Institute of Electrical Engineering, Slovakia	Superconducting properties, bending limits and microstructure of the new-generation filamentized REBCO tapes intended for fusion magnets		011
ThM-07	11:30	20	Tatsunori Okada	HFLSM, Tohoku University, Japan	In-plain domain control of REBCO coated conductors by bending strain and its effects on superconducting properties		041
ThA-08	12:00	20	Peifeng Gao	Lanzhou University, China	Multi-dimensional electromechanical failure criterion for high-field REBCO magnets		037
	12:30	90	**LUNCH (provided)**				
Session 10: ReBCO Coated-Conductor Cables— Electromechanical Properties **Chairs: TBD**							
ThA-09	14:00	30	**Venkat Selvamanickam**	University of Houston, USA	Electromechanical properties of REBCO tapes and wires	**Invited**	020
ThA-10	14:40	30	**Danko van der Laan**	Advanced Conductor Technologies, USA	Development of the next generation of CORC® cables and wires with improved bending flexibility and in-field performance for high-field magnet applications	**Invited**	033
ThA-11	15:20	20	Jeremy Weiss	Advanced Conductor Technologies, USA	Implications of current sharing in CORC® cables and CICC		024
	15:50	15	**COFFEE BREAK**				
ThA-12	16:05	20	Arend Nijhuis	University of Twente, The Netherlands	Characterization of ReBCO tapes and their performance in full-size ReBCO CORC® 20 T class CICCs for fusion; experiments and modeling		001
ThA-13	16:35	30	**Peter McIntyre**	Texas A&M University, USA	REBCO blocks-in-conduit: structured cable, stress management, transposition, and volumetric cooling for high-field insert windings for toroids and solenoids	**Invited**	010
ThA-14	17:15	20	Garfield Murphy	ASC-NHMFL-FSU, USA	Methods for polishing and microscopy analysis of REBCO-coated conductors		046
Session 11: ReBCO Coated-Conductors & Cables — Their Robustness & Limitations **Chairs: TBD**							
	17:45	45	**General Discussion on ReBCO Coated-Conductors & Cables**				
	18:30		**END of DAY 3**				
			DINNER (on your own)				

Friday, June 14

Talk ID#	Time	Minutes	Presenter First & Last Name	Presenter Affiliation	Presentation Title		Abstract ID#
	8:00	10	Najib Cheggour	ASC-NHMFL-FSU, USA	Opening Remarks		
Session 12: ReBCO Coated-Conductor Magnets **Chairs: TBD**							
FrM-01	8:10	30	**Satoshi Awaji**	HFLSM, Tohoku University, Japan	Mechanical design of HTS coils for 33T cryogen-free superconducting magnet	**Invited**	025
FrM-02	8:50	20	Rui Diaz-Pacheco	Commonwealth Fusion Systems, USA	Electromechanical properties of SPARC CS and PF superconductor cables under relevant transverse and axial compression		008
FrM-03	9:20	20	Yunfei Gao	Kyoto University, Japan	Development of mechanically and electrically robust stator winding for fully high-temperature superconducting generator		036
FrM-04	9:50	20	Shixian Liu	Chinese Academy of Science, China	Electromechanical-thermal analysis of a no-insulation REBCO racetrack coil considering non-uniform stress distribution		023
	10:20	20	**COFFEE BREAK**				
Session 13: ReBCO Coated Conductors — Linking Conductor Electro-Mechanical Properties to Magnet Performances **Chairs: TBD**							
	10:40	40	**General Discussion on ReBCO Coated Conductors & Magnets**				
Session 14: Electromechanical Benchmarking and Standardization **Chairs: TBD**							
FrM-05	11:20	30	**Kozo Osamura**	RIAS, Japan	Standardization of test methods for SC wire in IEC TC90	**Invited**	006
FrA-06	12:00	20	Damian P. Hampshire	Durham University, UK	Large scale verification of Nb_3Sn and Nb-Ti superconducting strands for ITER		018
	12:30	30	**LUNCH (provided boxed lunch)**				
Session 15: Electromechanical Metrology and Standardization **Chairs: TBD**							
	13:00	30	**General Discussion on Electromechanical Metrology & Standardization Needs**				
	13:30		**CLOSING**				
	15:00 - 20:00		**POSSIBLE EXCURSION — CRUISE ON LAKE COEUR D'ALENE (IDAHO) — NOT CERTAIN YET — DETAILS BEING WORKED ON**				