

Program for the 14th US-Japan Workshop on Advanced Superconductors - Dec. 14, 15, 2009, Tallahassee, FL USA
15 minute talks are invited talks (Revised Dec. 9, 2009)

Begin time	Min	Last Name	First Name	Affiliation	Title
Monday - Dec. 14, 2009 - Opening the Workshop - Session Chairs - H. Kumakura and E. Hellstrom					
8:30	10	Kemper	Kirby	Florida State University	Welcome
8:40	10	Larbalestier	David	NHMFL	Welcome
8:50	5	Kumakura	Hiroaki	National Institute for Mat. Sci.	Welcome
8:55	5	Hellstrom	Eric	NHMFL	Welcome
Monday - Dec. 14, 2009 - Applications and Application Related Properties - I - Session Chairs: N. Amemiya and R. Duckworth					
9:00	10	Bird	Mark	NHMFL	Superconducting Magnet Projects at the NHMFL
9:10	10	Kiyoshi	Tsukasa	National Institute for Mat. Sci.	Development of HTS-NMR
9:20	10	Wakuda	Tsuyoshi	Hitachi Ltd. Materials Research Lab	Demonstration of the performance of the new configuration NMR
9:30	10	Weijers	Huub	NHMFL	Technology for high field magnets with YBCO conductors
9:40	10	Trociewitz	Ulf	NHMFL	High field magnets with YBCO coated conductor and Bi2212 round wire
9:50	10	Godeke	Arno	Lawrence Berkeley National Lab	Status of Bi-2212 wind-and-react accelerator magnet technology
10:00	10	Tajima	Tsuyoshi	Los Alamos National Laboratory	Studies on the Coating of MgB ₂ and NbN Thin Films for Superconducting RF Cavities for Particle Accelerators
10:10	30	Break			
Monday - Dec. 14, 2009 - Applications and Application Related Properties - II - Session Chairs: U. Trociewitz and T. Wakuda					
10:40	10	Nakamura	Taketsune	Kyoto University	Development of HTS induction/synchronous machine for electric vehicle
10:50	10	Mimura	Tomoo	Tokyo Electric Power Company	Status of the Yokohama Project - Superconducting Cable Demonstration Project in Japan
11:00	10	Amemiya	Naoyuki	Kyoto University	Influence of shielding current in HTS tape on field quality of magnets
11:10	10	Pamidi	Sastry	Center for Advanced Power Systems	Measurement of AC loss in Superconducting Coils
11:20	10	Duckworth	Robert	Oak Ridge National Laboratory	Stabilization considerations in low ac loss geometrics and prototype coated conductor devices
11:30	10	Levin	George	Air Force Research Laboratory	The effects of superconductor-stabilizer interfacial resistance on quench of current-carrying coated conductor
11:40	10	Gannon	John	American Superconductor	Important properties of 2G conductor for applications
11:50	10	Walsh	Robert	NHMFL	Tensile Tests of Bi-2212 Ag Alloy Clad Round High T _c Superconducting Wires
12:00	20	Discussion - Applications and Application Related Properties			
12:20	50	Lunch			

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Monday - Dec. 14, 2009 - New Topics - Session Chairs: T. Matsushita and D. Larbalestier					
13:10	15	Kuznetsov	Alex	UT-Dallas	Search for Superconductivity in Doped Carbon Nanotubes and Processing of Wires
13:25	10	Naito	Michio	Tokyo University of agriculture and Technology	Superconductivity in the parent compound of "electron-doped" cuprates prepared by metal organic decomposition
13:35	15	Shimoyama	Jun-ichi	Department of Applied Chemistry, University of Tokyo	Derivable potential of cuprates, pnictide oxides and MgB ₂ for advanced superconducting materials
13:50	10	Chiorescu	Irinel	NHMFL	Measurement of the nonlinear Meissner effect in superconducting Nb films using a resonant microwave cavity: A probe of unconventional pairing symmetries
14:00	10	Suzuki	Minoru	Kyoto University	Josephson Effect in High-T _c Superconductors Observed in Small-Mesa-Structured Intrinsic Josephson Junctions
Monday - Dec. 14, 2009 - BSCCO - Session Chairs: J. Jiang and H. Kumakura					
14:10	10	Tatamidani	Kazuaki	Sumitomo Electric Industries	Recent Progress in DI-BSCCO
14:20	10	Matsumoto	Akiyoshi	National Institute for Mat. Sci.	The microstructures and superconducting properties of Bi2212 round wires
14:30	10	Kitaguchi	Hitoshi	National Institute for Mat. Sci.	Performance of CT-OP processed Bi-2223 tapes and coils
14:40	10	Hellstrom	Eric	NHMFL	Processing 2212 Round Wire Conductors
14:50	10	McIntyre	Peter	Texas A&M University	Renewed Development of Structured Cable using Bi-2212/Ag Wire
15:00	20	Discussion: New Topics and BSCCO			
15:30		Depart for poster session and banquet at Wakulla Springs			
Monday - Dec. 14, 2009 - Poster Session at Wakulla Springs - Session Chairs: T. Holesinger and A. Matsumoto					
		Chen	Lei	NHMFL	On-chip methods to study low temperature magnetic and superconducting samples
		Damborsky	Kyle	Texas A&M University	Magnetic Texturing of Bi-2212 Powder And Wire Fabrication using the Textured Powder
		Jo	Yong-Jung	NHMFL	Characterization of Nb ₃ Sn
		Lu	Feng	NHMFL	BZO in non-fluorine MOD YBCO films
		Myers	David	NHMFL	2212 coil deconstruction
		Shen	Tengming	NHMFL	Overdoping in 2212 conductor
		Song	XueYan	West Virginia University	Atomic Structure and Electromagnetic Properties of MgB ₂ with Dense Nanoprecipitates
		Sung	Zu Hawn	NHMFL	Nb for SRF cavities
		Zhou	Jian	NHMFL	Fundamental studies on Nb ₃ Sn

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Tuesday - Dec. 15, 2009 - Pnictides and Fe-Based Superconductors - I - Session Chairs: Y. Takano and C. Tarantini					
8:30	15	Paglione	Johnpierre	University of Maryland	Superconductivity, Magnetism and Lattice Structure in the Iron Arsenides
8:45	10	Ogino	Hiraku	University of Tokyo	New layered pnictide oxide superconductors with perovskite-type blocking layers
8:55	10	Iyo	Akira	National Institute of Advanced Industrial Science	Iron isotope effect on T_c in optimally doped $(\text{Ba,K})\text{Fe}_2\text{As}_2$ ($T_c = 38\text{K}$) and SmFeAsO_{1-y} ($T_c = 54\text{K}$) superconductor
9:05	10	Kametani	Fumitake	NHMFL	Intergrain current flow in a randomly oriented polycrystalline $\text{SmFeAsO}_{0.85}$ oxypnictide
9:15	10	Otabe	Edmund	Kyushu Institute of Technology	Evaluation of local and global critical current densities of FeAs-based superconductors
9:25	15	Ikuta	Hiroshi	Dept of Crystalline Materials Science, Nagoya University	Epitaxial Growth of $\text{NdFeAs}(\text{O},\text{F})$ Thin Films by Molecular Beam Epitaxy
9:40	10	Hiramatsu	Hidenori	Japan Science and Technology Agency	Heteroepitaxial thin film growth of layered iron-based pnictide superconductors and their electrical properties
9:50	15	Lee	Sanghan	University of Wisconsin-Madison	Template engineering of Co-doped BaFe_2As_2 single-crystal thin films
10:05	10	Jiang	Jianyi	NHMFL	Weak-link behavior of grain boundaries in superconducting $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ bicrystals
10:15	30	Break			
Tuesday - Dec. 15, 2009 - Pnictides and Fe-Based Superconductors - II - Session Chairs: H. Hiramatsu and J. Paglione					
10:45	10	Muromachi	Eiji	National Institute for Mat. Sci.	Effects of oxygen-defect and impurity doping on superconductivity of 1111-type iron arsenides
10:55	10	Takano	Yoshihiko	National Institute for Mat. Sci.	Superconductivity in FeSe and related materials
11:05	10	Tamegai	Tsuyoshi	Department of Applied Physics, University of Tokyo	Critical Current Densities in Fe-Pnictides and Fe-Chalcogenides
11:15	10	Tarantini	Chiara	NHMFL	Kondo effect and critical temperatures suppression induced by α -particle irradiation in $\text{NdFeAsO}_{0.7}\text{F}_{0.3}$ single crystal
Tuesday - Dec. 15, 2009 - MgB₂ - Session Chairs: E. Hellstrom and J. Shimoyama					
11:25	10	Kumakura	Hiroaki	National Institute for Mat. Sci.	Densification of MgB_2 layers in MgB_2 tapes and wires
11:35	10	Yamamoto	Akiyasu	NHMFL	Characterization of MgB_2 thin film superconductors
11:45	10	Matsushita	Teruo	Kyushu Institute of Technology	Flux Pinning Properties of MgB_2 Superconductor in High Magnetic Fields
11:55	20	Discussion - Pnictides and Fe-Based Superconductors and MgB₂			
12:15	10	Group photo outside the Mag Lab			
12:25	60	Lunch			

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Tuesday - Dec. 15, 2009 - Coated Conductors - I - Session Chairs: T. Haugan and K. Matsumoto					
13:25	10	Sathyamurthy	Srivatsan	American Superconductor	Enhancement of RABITS/MOD-YBCO critical current
13:35	10	Hanyu	Satoru	Fujikura Ltd.	High performance 2G wire by productive IPAD/PLD scheme
13:45	10	Selvamanickam	Venkat	University of Houston	Second generation HTS wires with enhanced in-field performance
13:55	10	Xu	Aixia	NHMFL	Angular dependence of J_c in YBCO coated conductor at 4K in fields up to 30 T.
14:05	10	Osofsky	Mike	Naval Research Laboratory	Deposition of YBCO for 2G conductors using laser direct write
14:05	15	Kiss	Takanobu	Kyushu University	Investigation on Current Limiting Mechanism in HTS Tapes and Its Feedback to High Performance RE-123 and Bi-2223 Wire Developments
14:20	10	Abraimov	Dima	NHMFL	Which type of GB misorientation best carries supercurrent?
14:30	10	Feenstra	Roeland	Oak Ridge National Laboratory	Thickness dependent vortex pinning and grain boundary limitations in <i>ex situ</i> processed YBCO coatings on rolling assisted biaxially textured substrates
14:40	30	Break			
Tuesday - Dec. 15, 2009 - Coated Conductors - II - Session Chairs: R. Feenstra and T. Kiss					
15:10	15	Matsumoto	Kaname	Kyushu Institute of Technology	Artificial Pinning Center Technology: Control of Flux Pinning and Glass-Liquid Transition
15:25	15	Holesinger	Terry	Los Alamos National Laboratory	Nano-engineering of phase separable inclusions in high performance YBCO thick films
15:40	10	Mukaida	Masashi	Kyushu University	Shape and diameter control of nanorods in Re-123 films
15:50	10	Haugan	Tim	US Air Force Research Laboratory	Unusual Flux Pinning Properties of YBCO with layered BaZrO ₃ nanoparticle additions
16:00	10	Lu	Jun	NHMFL	Critical Current of YBCO Coated Conductor as a Function of Strain at 77 K in Magnetic Field
16:10	10	Doi	Toshiya	Kagoshima University	2G wire with textured non-magnetic Cu/S31600 laminated tape
16:20	20	Discussion - Coated Conductors			
Tuesday - Dec. 15, 2009 - Closing the Workshop - Session Chair: H. Kumakura					
16:40	10	Hellstrom	Eric	NHMFL	Wrap up
0:00	10	Shimoyama	Jun-ichi	Department of Applied Chemistry, University of Tokyo	Wrap up
Wednesday Dec. 16, 2009 - Tours					
9:00	180	Begin tours at the Applied Superconductivity Center (ASC) - leave suitcases at ASC Center for Advanced Power Sources National High Magnetic Field Laboratory			
12:00	30	Lunch at the MagLab for those on the tours			
12:30		Depart for the airport			