

CCA 2012 International Conference on Coated Conductors for Applications

Heidelberg, Crowne Plaza, 13th - 16th November 2012

Hosted by Karlsruhe Institute of Technology, Institute for Technical Physics

Conference Chairs: Wilfried Goldacker, Bernhard Holzapfel

TECHNICAL PROGRAM

Tuesday, November 13th			
16.00 - 20.00	REGISTRATION at Crowne Plaza Lobby		
18.00 - 20.00	WELCOME & OPENING		
Wednesday, November 14th			
08.30 - 08.45	WELCOME ADDRESS <i>W. Goldacker, B. Holzapfel</i>		
08.45 - 10.30	SESSION A <i>Chair: W. Goldacker</i> Overview presentations on coated conductor activities in Japan, USA and Europe		
08.45	<i>Venkat Selvamanickam</i>	Overview US activities <i>V. Sevamanickam</i> <i>Department of Mechanical Engineering and Texas Center for Superconductivity</i> <i>University of Houston, Houston, TX 77204, USA</i>	A01
09.20	<i>Teruo Izumi</i>	Overview of R&D on Coated Conductors and Applications in Japan <i>T. Izumi</i> <i>Superconductor Research Laboratory, International Superconductivity Technology Center,</i> <i>1-10-13 Shinonome, Koto-ku, Tokyo, 135-0062 Japan</i>	A02
09.55	<i>Xavier Obradors</i>	Progress and new initiatives in coated conductor research in Europe <i>X. Obradors</i> <i>Institut de Ciència de Materials de Barcelona (ICMAB-CSIC) Campus Universitat Autònoma</i> <i>de Barcelona, 08193 Bellaterra, Spain</i>	A03
10.30 - 11.00	Coffee / Tea Break		

11.00 - 12.30	SESSION B Chair: B. Holzapfel Enhanced processing methods for high performance coated conductors	
11.00	Takanobu Kiss	Improvement of in-field current carrying capability and spatial homogeneity in IBAD based coated conductors T. Kiss ¹ , K. Higashikawa ¹ , M. Inoue ¹ , K. Kimura ² , T- Koizumi ² , N. Aoki ² , H. Tobita ³ , M. Yoshizumi ³ , T. Izumi ³ ¹ Kyushu University: W2-524, 744 Motoooka, Nishi-ku, Fukuoka 819-0395, Japan ² SWCC Showa Cable Systems Co., Ltd.:4-1-1 Minami-Hashimoto, Sagamihara, Kanagawa 229-1133, Japan ³ ISTECSRL: 10-13 Shinonome, Koto-ku, Tokyo 135-0062, Japan
11.20	Valentina Roxana Vlad	Advanced processing of TFA^{ABAD}YBa₂Cu₃O_{7-x} layers on YSZ/SS metallic substrates for coated conductors V. R. Vlad ¹ , M. Akalouch ¹ , A. Calleja ^{1,2} , R. Guzman ² , M. Vilardell ² , R. Ayala ¹ , E. Bartolomé ⁴ , X. Granados ² , S. Ricart ² , A. Palau ² , J. Gázquez ² , J. Arbiol ² , X. Obradors ² , T. Puig ² , A. Usoskin ³ ¹ Oxolutia SL, Edifici Eureka, PR UAB, Campus de la UAB, 08193 Bellaterra, Spain ² Institut de Ciència de Materials de Barcelona (ICMAB-CSIC) Campus Universitat Autònoma de Barcelona, 08193 Bellaterra, Spain ³ Bruker HTS GmbH, Siemensstr. 88, D-63755 Alzenau, Germany ⁴ Escola Universitària Salesiana de Sarrià, Passeig Sant Joan Bosco, 74, 08011, Barcelona, Spain
11.35	Markus Bauer	High performance HTS tapes made by PVD techniques M. Bauer THEVA Dünnschichttechnik GmbH, Rote-Kreuz-Str. 8, 85737 Ismaning, Germany
11.55	Mariona Coll	Progress on solution-derived YBCO nanocomposites for enhanced superconducting performances M. Coll, S. Ye, P. Garcés, R. Guzmán, J. Gázquez, V. Rouco, A. Palau, J. Arbiol, T. Puig, X. Obradors Institut de Ciència de Materials de Barcelona, ICMAB-CSIC, Bellaterra, Spain
12.10	Takeharu Kato	Transmission Electron Microscopy Study of Y_xGd_{1-x}Ba₂Cu₃O_y Coated Conductors Containing BaZrO₃ Particles T. Kato ¹ , R. Yoshida ¹ , T. Hirayama ¹ , Y. Takahashi ² , M. Yoshizumi ³ , T. Izumi ³ , Y. Shiohara ³ ¹ Nanostructures Research Laboratory, Japan Fine Ceramics Center, Nagoya, 456-8587 Japan ² Superconductor Engineering R&D Department, Engineering R&D Center, SWCC Showa Cable Systems Co., LTD., 4-1-1 Minami-Hashimoto, Chuo-ku, Sagamihara-shi, 252-0253, Japan ³ Superconductor Research Laboratory-Division of Superconducting Tapes and Wires, International Superconductivity Technology Center, 1-10-13 Shinonome, Koto-ku, Tokyo, 135-0062 Japan
12.25 - 13:30	Lunch	
13.30 - 15.30	SESSION C Chair: X. Obradors High performance nanostructure engineering and flux pinning	
13.30	Teruo Izumi	Improvement of In-field Performances in Coated Conductors by APC Introduction T. Izumi, Y. Shiohara Superconductor Research Laboratory, International Superconductivity Technology Center, 1-10-13 Shinonome, Koto-ku, Tokyo, 135-0062 Japan
13.50	Teruo Matsushita	Enhancement of flux pinning strength and upper critical field by BHO nano-rods in GdBCO coated conductors T. Matsushita ^{1*} , H. Nagamizu ¹ , M. Kiuchi ¹ , E.S. Otabe ¹ , H. Tobita ² , M. Yoshizumi ² , T. Izumi ² , Y. Shiohara ² , D. Yokoe ³ , T. Kato ³ , T. Hirayama ³ ¹ Department of Computer Science and Electronics, Kyushu Institute of Technology, 680-4Kawazu, Iizuka 820-8502, Japan ² Fujikura Ltd., 1440 Mutsuzaki, Sakura-shi, Chiba 285-8550, Japan ³ Superconductivity Research Laboratory, International Superconductivity Technology Center, 1-10-13 Shinonome, Koto-ku, Tokyo 135-0062, Japan ⁴ Japan Fine Ceramic Center, 2-4-1 Mutsuno, Ataka-ku, Nagoya 456-8587, Japan
14.10	Manuela Erbe	A route to improved structural characteristics for TFA-MOD derived REBCO thin films with BaHfO₃ artificial pinning centers M. Erbe ¹ , T. Freudenberg ¹ , E. Reich ¹ , A. Kirchner ¹ , S. Kaskel ² , L. Schultz ¹ , B. Holzapfel ¹ ¹ Institute for Metallic Materials, IFW Dresden, Helmholtzstr. 20, D-01069 Dresden, Germany ² Dept. of Inorganic Chemistry, Dresden University of Technology, Mommsenstraße 6, D-01069 Dresden, Germany

14.25	Elke Reich	Defect analysis in BaHfO₃ doped REBa₂Cu₃O_x(RE = Y, Gd) thin films E. Reich , M. Sparing , M. Erbe, J. Hänisch , R. Hühne , L. Schultz and B. Holzapfel <i>IFW Dresden, Helmholtzstr. 20, 01069 Dresden, Germany</i>	C04
14.40	Yutaka Yoshida	High J_c SmBCO films doped BaHfO₃ by alternating targets for coated conductor application Y. Yoshida ¹ , A. Tsuruta ¹ , Y. Ichino ¹ , S. Awaji ² , K. Matsumoto ³ , A. Ichinose ⁴ ¹ Nagoya University, Furo-cho, Chikusa-ku, Nagoya, 464-8603, Japan ² Tohoku University, 2-1-1 Katahira, Aoba-ku, Sendai, 980-8577, Japan ³ Kyushu Institute of Technology, 1-1 Sensui-cho, Tobata-ku, Kitakyus ⁴ CRIEPI, 2-6-1 Nagasaka, Yokosuka, Kanagawa 240-0196, Japan	C05
15.00	Anna Palau	Vortex pinning mechanisms of solution-derived YBCO nanocomposites A. Palau, V. Rouco, , M. Coll, S. Ye, A. Llordés, J. Gazquez, J. Arbiol , R. Guzmán, S. Ricart, X. Obradors, T. Puig <i>Institut de Ciència de Materials de Barcelona, ICMAB-CSIC, Bellaterra, Spain</i>	C06
15.15	Stuart C. Wimbush	c-axis correlated pinning in MOD coated conductors S. C. Wimbush <i>Industrial Research Limited, 69 Gracefield Road, Lower Hutt 5010, New Zealand</i>	C07
15.30 - 16.00	Coffee / Tea Break (Poster pin-up session PA)		
16.00 - 18.00	SESSION D Chair: T. Izumi Long length scale, low cost conductors, new approaches and performance		
16.00	Cees Thieme	Second Generation HTS using Ni-9W substrates and 1.2 um YBCO layers C. Thieme <i>AMSC (American Superconductor), 64 Jackson Rd, Devens MA 01434, U.S.A</i>	D01
16.20	Ruben Hühne	Application of textured highly alloyed Ni-W tapes for coated conductors R. Hühne, J. Hänisch, M. Sieger, U. Gaitzsch, J. Eickemeyer, C. Rodig, J. Freudenberger, L. Schultz, B. Holzapfel <i>IFW Dresden, Helmholtzstrasse 20, 01069 Dresden, Germany</i>	D02
16.40	Kerstin Knoth	Long length highly alloyed cube textured Ni substrate tapes for high I_c coated conductors K. Knoth ¹ , O. de Haas ¹ , O. Brunkahl ² , M. Bäcker ² ¹ Evico GmbH, Großenhainer Str. 101, 01127 Dresden, Germany ² Deutsche Nanoschicht GmbH, Heisenbergstr. 16, 53359 Rheinbach, Germany	D03
16.55	Michael Bäcker	All-solution Coated Conductors for energy applications M. Baecker, M. Falter, B. Wojtyniak, O. Brunkahl, M. Mosiadz <i>Deutsche Nanoschicht GmbH, Heisenbergstr. 16, 53359 Rheinbach, Germany</i>	D04
17.15	Vadim Amelichev	Chemical Deposition Approaches to Practical Coated Conductors S. Samoylenkov, V. Amelichev, A. Kamenev, A. Mankevich, A. Markelov, V. Kalitka, A. Blednov, V. Chepikov, A. Shchukin, A. Makarevich, A. Kharchenko, L. Bourova, A. Kaul, A. Vavilov <i>SuperOx, 141-1 Zhukovka, Odintsovo district, 143082 Moscow Region, Russia</i>	D05
17.30	Seiki Miyata	YBCO Coated Conductor Fabrication by IR-Laser-Assisted Chemical Vapor Deposition S. Miyata, K. Matsuse, A. Ibi, T. Izumi, Y. Shiohara <i>Superconductivity Research Laboratory, ISTEC, 1-10-13 Shinonome, Koto-ku, Tokyo 135-0062, Japan.</i>	D06
17.45	Takanobu Kiss	Noncontact reel-to-reel characterization of in-plane J_c distribution in slit and multifilamentary coated conductors T. Kiss ¹ , K. Higashikawa ¹ , M. Inoue ¹ , Y. Shingai ² , M. Konishi ² , K. Ohmatsu ² , T. Machi ³ , M. Yoshizumi ³ , T. Izumi ³ ¹ Kyushu University: W2-524, 744 Motoooka, Nishi-ku, Fukuoka 819-0395, Japan ² Sumitomo Electric Industries, Ltd. (SEI) ³ International Superconductivity Technology Center (ISTEC)	D07
18.00 - 19.00	POSTER SESSION PA Topics of Sessions B-D		
20.00 - 22.00	Conference Dinner		

Thursday, November 15th

08.30 - 10.30	SESSION E Chair: R. Wesche New conductor designs, technical conductor features, stability, strain effects	
8.30	Alexander Usoskin	Large area HTS coated conductors via HR-PLD: progress and issues of processing upscale A. Usoskin, R. Dietrich, K. Schlenga Bruker HTS GmbH, Siemensstr. 88, D-63755 Alzenau, Germany E01
8.50	Vladimir Matias	YBCO superconductor wire based on IBAD-textured templates: Design, performance and cost possibilities V. Matias, C. Sheehan iBeam Materials, Inc., Santa Fe, NM, USA E02
9.05	Venkat Selvamanickam	Fully-filamentized HTS coated conductors by striation and selective electroplating V. Selvamanickam, I. Kesgin and G. Majkic Department of Mechanical Engineering and Texas Center for Superconductivity University of Houston, Houston, TX 77204, USA E03
9.25	Takato Machi	Filamentarization of coated conductors by laser scribing technique T. Machi, K. Nakao, K. Tanabe Superconductivity Research Lab. ISTE, 1-10-13, Shinonome, Koto-ku, Tokyo 135-0062, Japan E04
9.45	Jonas Feys	Digital printed superconducting coatings and patterns J. Feys ¹ , B. Ghekiere ¹ , P. Lommens ¹ , P. Vermeir ^{1,2} , S. C Hopkins ³ , M. Baecker ⁴ , X. Granados ⁵ , K. De Buysser ¹ , I. Van Driessche ¹ ¹ Ghent University, SCRIPTS, Belgium ² University College Ghent, Department of Industrial Sciences, Belgium ³ University of Cambridge, Department of Materials Science and Metallurgy, UK ⁴ Deutsche Nanoschicht GmbH, Rheinbach, Germany ⁵ ICMAB-CSIC, UAB, Barcelona, Spain E05
10.00	Michael Eisterer	Stress dependence of the critical currents in neutron irradiated (RE)BCO coated conductors J. Emhofer, M. Eisterer, H. W. Weber Atominstytut, Vienna University of Technology, Stadionallee 2, 1020 Vienna, Austria E06
10.15	Rainer Nast	Effects of laser structuring on the properties of (RE)BCO coated conductors R. Nast ¹ , B. Ringsdorf ¹ , A. Jung ¹ , B. Runtsch ¹ , M. Vojenciak ¹ , A. Kario ¹ , W. Goldacker ¹ , T. Holubek ² , S. Casalbuoni ² ¹ Karlsruhe Institute of Technology, Institute for Technical Physics, ² Karlsruhe Institute of Technology, Institute for Synchrotron Radiation, Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany E07
10.30 - 11.00	Coffee / Tea Break	
11.00 - 12.30	SESSION F Chair: T. Kiss AC losses, numerical modeling, rotating machinery	
11.00	Fedor Gömöry	Magnetic field shaping by a combination of coated conductor and ferromagnetic tapes F. Gömöry Institute of Electrical Engineering, Slovak Academy of Sciences, Dubravská cesta 9, 84104 Bratislava, Slovakia E01
11.20	Leonid Fisher	AC Losses in HTS tapes with transport current in ac magnetic field L. M. Fisher, A. V. Kalinov, I. F. Voloshin, Russian Research Center All-Russian Electrical Engineering Institute, Moscow, 111250 Russia E02
11.35	Francesco Grilli	Numerical modeling tools for REBCO coated conductors F. Grilli, P. Krüger, M. Vojenciak, V. M. Rodriguez Zermeño, Karlsruhe Institute of Technology, Institute for Technical Physics, Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany E03
11.55	Victor Zermeno	Calculation of AC losses in large HTS stacks and coils V. Zermeno ¹ , A. B. Abrahamsen ² , N. Mijatovic ² , B. B. Jensen ² , M. P. Sørensen ² ¹ Karlsruhe Institute of Technology, Institute for Technical Physics, Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany ² Technical University of Denmark, Anker Engelunds Vej 1, Bygn. 101A, 2800 Kgs. Lyngby E04
12.10	Bernhard Oswald	HTS Motors with gas cooling at low temperatures B. Oswald, a.T.de Waele, T. Reis Oswald Elektromotoren GmbH, Benzstr. 12, 63897 Miltenberg, Germany E05

12.30 - 13.30	Lunch (Poster pin-up)
13.30 - 14.30	POSTER SESSION PB Topics of Session E-H
15.00 - 18.00	Excursion to Heidelberg Castle
18.00 - 21.00	Wine tasting event Schriesheim
21.00	Return to Hotel Crowne Plaza

Friday, November 16th			
08.30 - 10.30	SESSION G Chair: F. Gömöry Magnets, fault current limiters, transformers		
08.30	<i>Ulf Peter Trociewitz</i>	Implementation Issues of REBa₂Cu₃O_{7-x} Coated Conductor in High Field Magnets U. P. Trociewitz, M. Dalban-Canassy, D. K. Hilton, J. Jaroszynski, P. Noyes, Y. Viouchkov, D. C. Larbalestier <i>Applied Superconductivity Center/National High Magnetic Field Laboratory, 1800 E Paul Dirac Dr, Tallahassee, FL 32310, USA</i>	G01
08.50	<i>Jan Jaroszynski</i>	Testing procedures on IBAD-MOCVD Coated Conductors for their use at high field and low temperature in magnet applications J. Jaroszynski ¹ , M. Santos ¹ , J. W. Sinclair ¹ , Y. Coulter ² , V. Braccini ^{1,3} , A. Xu ^{1,4} , D. Abramov ¹ , A. Polyanskii ¹ , D. C. Larbalestier ¹ ¹ <i>Applied Superconductivity Center, National High Magnetic Field Laboratory, Tallahassee FL 32310, USA;</i> ² <i>National High Magnetic Field Laboratory, Los Alamos, NM 87545, USA,</i> ³ <i>CNR – SPIN, I-16152 Genova, Italy,</i> ⁴ <i>Texas Center for Superconductivity, University of Houston, Houston, TX 77204, USA</i>	G02
09.05	<i>Rainer Wesche</i>	Prospects for the use of RE-123 tapes in the magnets of future fusion reactors R. Wesche, D. Uglietti, C. Marinucci, P. Bruzzone <i>Ecole Polytechnique Fédérale de Lausanne, Centre de Recherches en Physique des Plasmas, Association Euratom – Confédération Suisse, WMHA/C31, 5232 Villigen PSI, Switzerland</i>	G03
09.20	<i>Achim Hobl</i>	Coated Conductors for HTS systems: Fault Current Limiters and Cables A. Hobl ¹ , J. Bock ¹ , M. Rikel ¹ , B. West ² , M. Stemmler ² ¹ <i>Nexans Superconductors GmbH, Chemiepark Knapsack, 50351 Hürth, Germany;</i> ² <i>Nexans Deutschland GmbH, Kabelkamp 20, 30179 Hannover, Germany</i>	G04
09.40	<i>Daniele Colangelo</i>	Modelling quench behaviour of inhomogeneous HTS-CCs for RFCLs D. Colangelo, B. Dutoit <i>École Polytechnique Fédérale de Lausanne, EPFL-SCI-IC-BD, Station 14, 1015 Lausanne, Switzerland</i>	G05
09.55	<i>Dimitry Evsin</i>	Superconducting resistive dc fault current limiter D.F. Alferov, M.R. Akhmetgareev, A.I. Budovskii, R.A. Bunin, D.V. Evsin, L.M. Fisher, V.P. Ivanov, V.A. Sidorov, I.F. Voloshin <i>All-Russian Electrical Engineering Institute, 12 Krasnokazarmennaya Str., 111250 Moscow, Russia</i>	G06
10.10	<i>Masataka Iwakuma</i>	Development of a 66kV-20MVA REBCO superconducting transformer with a current limiting function M. Iwakuma ¹ , H. Hayashi ² , Y. Goshō ² , A. Tomioka ³ , Masayuki Konno ³ , A. Tagomori ⁴ , T. Ohkuma ⁴ , T. Izumi ⁴ , Y. Shiohara ⁴ ¹ <i>Kyushu University, 744Motooka, Nishi-ku, Fukuoka 819-0395, Japan</i> ² <i>Kyushu Electric Power Co., Inc., 2-1-47 Shiobaru, Minami-ku, Fukuoka 815-8520, Japan</i> ³ <i>Fuji Electric Co., Ltd., 7 Yawata-Kaigandori, Ichihara-city, Chiba prefecture 290-8511, Japan</i> ⁴ <i>International Superconductivity Technology Center, 1-10-13 Shinonome, Koto-ku, Tokyo 135-0062, Japan</i>	G07

10.30 - 11.00	Coffee / Tea Break		
11.00 - 11.55	SESSION H Chair: C. Thieme Cables, new applications		
11.00	<i>Jin Liu</i>	<p>Design and Evaluation of a 275kV-3kA YBCO superconducting cable J. Liu¹, M. Yagi¹, S. Mukoyam¹, T. Mitsuhashi¹, J. Teng¹, R. Nakayama¹, T. Ohkuma², O. Maruyama², T. Hasegawa³, T. Saitoh⁴, N. Amemiya⁵, X. Wang⁶, A. Ishiyama⁶, N. Hayakawa⁷ ¹Furukawa Electric Co., LTD, 6, Yawata-kaigandori, Ichihara, Chiba 290-8555 Japan ²ISTEC SRL, Tokyo, Japan ³Showa Cable Systems, Sagamihara, Japan ⁴Fujikura, Sakura, Japan ⁵Kyoto University, Kyoto, Japan ⁶Waseda University, Tokyo, Japan ⁷Nagoya University, Nagoya, Japan</p>	H01
11.20	<i>Danko van der Laan</i>	<p>Progress in high-temperature superconducting Conductor on Round Core (CORC) cables for high-field magnets and power transmission D. C. van der Laan¹, G. E. Miller², P. D. Noyes², H. W. Weijers², C. H. Kim³, S. Pamidi³ ¹Advanced Conductor Technologies, Boulder, CO 80301 and the University of Colorado, Department of Physics, Boulder, CO 80309, USA ²National High Magnetic Field Laboratory, Florida State Univ., Tallahassee, FL 32310, USA ³Center for Advanced Power Systems, Florida State University, Tallahassee, FL 32310, USA</p>	H02
11.40	<i>Rajinikumar Ramalingam</i>	<p>Embedded optical sensing array to investigate the mechanical properties of coated conductors R. Ramalingam, R. Nast, H. Neumann Karlsruher Institut für Technologie (KIT), Institut für Technische Physik, Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen</p>	H03
11.55 - 12.30	SESSION I Chair: H. C. Freyhardt Summary and outlook from CCA and the presentations		
	<i>Venkat Selvamanickam</i>	CC long length, economy	I01
	<i>Teruo Izumi</i>	CC technology	I02
	<i>Cees Thieme</i>	Applications	I03
	<i>Xavier Obradors</i>	Flux pinning	I04
	<i>Bernhard Holzapfel</i>	Trend preparation	I05
	<i>Wilfried Goldacker</i>	Large scale	I06
12.30 - 12.45	CLOSING ADDRESS W. Goldacker and B. Holzapfel		
12.45 - 13.45	Lunch		
14.00	Departure to KIT from Crowne Plaza (back side)		
15.00 - 17:00	KIT-ITEP Lab Tour		
17.15	Transfer to Hotel Crowne Plaza (arrival approximately 18.00)		

18.00 - 19.00 Wednesday	POSTER SESSION PA	
Susagna Ricart	Growth of YBCO films by metal-organic decomposition of low- and fluorine-free precursor solutions S. Ricart ¹ , X. Palmer ¹ , M. Nasui ² , C. Pop ² , L. Ciontea ² , P. Roure ³ , J. Farjas ³ , V. Rouco ¹ , A. Palau ¹ , C. F. Sánchez ¹ , R. Vlad ⁴ , R. Guzman ¹ , J. Gázquez ¹ , J. Arbiol ¹ , T. Puig ¹ , X. Obradors ¹ ¹ Institut de Ciència de Materials de Barcelona (CSIC), Campus UAB, 08193 Bellaterra, Spain ² University of Cluj-Napoca, 15, Cluj-Napoca, Romania ³ Departament de Física, Universitat de Girona, Girona, Spain ⁴ Oxolutia SL, Edifici Eureka, PR UAB, Campus de la UAB, 08193 Bellaterra, Spain	PA-B06
Pavol Konopka	Grain orientation in high temperature superconducting layer P. Konopka, M. Pekarčíková, M. Skarba, J. Janovec Slovak University of Technology in Bratislava, Faculty of Materials Science and Technology in Trnava, Paulínska 16, 917 24 Trnava, Slovak Republic	PA-B07
Mykola Solovyov	Non-uniformity study of CC-tapes M. Solovyov, J. Šouc, E. Pardo, F. Gömöry Institute of Electrical Engineering Slovak Academy of Sciences, Dubravská cesta 9, 841 04 Bratislava, Slovakia	PA-B08
Ralph Delmdahl	Pulsed Laser Deposition of Coated Conductors Goes Mainstream R. Delmdahl ¹ , J. A. Greer ² ¹ Coherent GmbH, Hans-Böckler-Str. 12, 37079 Göttingen, Germany ² PVD Products, Inc., 35 Upton Drive, Suite 200, Wilmington, MA 01887-1188, USA	PA-B09
Kouta Katayama	Development of fabrication technique for low AC loss TFA-MOD coated conductors. Kouta Katayama, Kenji Nakahata, Masateru Yoshizumi, Teruo Izumi, Yuh Shiohara Superconductivity Research Laboratory, ISTEC, 10-13, SHINONOME 1-CHOME, KOTO-KU, TOKYO, JAPAN	PA-B10
Shun Miura	Surface morphologies of BaHfO₃ doped high crystallinity SmBa₂Cu₃O_y films S. Miura, A. Turuta, Yusuke Ichino, Y. Yoshida Dept. of Energy Engineering and Science, Nagoya University, Furo-cho, Chikusa-ku, Nagoya, 464-8603, Japan	PA-C09
Michal Skarba	Irregularities in structure of REBCO superconducting tapes M. Skarba, P. Konopka, M. Pekarčíková, J. Janovec Slovak University of Technology in Bratislava, Faculty of Materials Science and Technology in Trnava, Paulínska 16, 917 24 Trnava, Slovak Republic	PA-C11
Maria Sparing	YBa₂Cu₃O_{7-δ} quasi-multilayers with predefined HfO₂ nanoparticles M. Sparing, J. Hänisch, T. Thersleff, R. Hühne, B. Rellinghaus, L. Schultz, B. Holzapfel IFW Dresden, Institute for Metallic Materials, P.O. Box: 270116, 01171 Dresden, Germany	PA-C12
Traian Petrisor	Magnetic vortex pinning in YBa₂Cu₃O_{7-x}/Ni₈₀Fe₂₀ bi-layers T. Petrişor Jr ¹ , M. S. Gabor ¹ , C. Tiusan ^{1,2} , G. Celentano ³ , A. Augieri ³ , T. Petrişor ¹ ¹ Centre for Superconductivity, Spintronics and Surface Science (C4S), Technical University of Cluj-Napoca, Str. Memorandumului, Nr. 28, 400114 Cluj-Napoca, Romania ² Institut Jean Lamour, UMR 7198 CNRS-Nancy Université, Vandœuvre-lès-Nancy, France ³ Associazione EURATOM-ENEA sulla Fusione, Frascati Research Centre, Via E Fermi, 45, 00044 Frascati, Rome, Italy	PA-C14
Ramona Bianca Mos	In-situ Induced Artificial BaZrO₃ Pinning Centers in YBa₂Cu₃O_{7-x} Thick Films by Low Fluorine Chemical Solution Deposition R. B. Mos ¹ , M. Nasui ¹ , T. Petrisor Jr. ¹ , M. Gabor ¹ , G. Celentano ² , A. Augieri ² , L. Ciontea ¹ , T. Petrisor ¹ ¹ Technical University of Cluj-Napoca, Memorandumului street No. 28, RO-400114 Cluj-Napoca, ROMANIA ² ENEA Superconductivity Division, Frascati (Rome), Italy	PA-C15
Serdar Altin	Pinning Force of MgB₂ + B Thin films S. Altin ¹ , M. A. Aksan ¹ , M. E. Yakinci ² ¹ Inonu Universitesi, Fen Edebiyat Fakultesi Fizik Bolumu, Turkey ² Superiletkenlik Arastirma Grubu, 44280, Malatya, Turkey	PA-C16
Jonathan De Roo	Synthesis of Ta₂O₅ and HfO₂ nanoparticles as artificial pinning centers in YBCO J. De Roo, K. De Keukeleere, J. Feys, P. Lommens, I. Van Driessche Ghent University, SCRIPTS, Department of Inorganic and Physical Chemistry, Krijgslaan 281, 9000 Ghent, Belgium	PA-C17
Vladimir Matias	Coated conductor templates based on solution deposition planarization and IBAD-MgO texturing V. Matias, Ch. Sheehan iBeam Materials, Inc., Santa Fe, NM, USA	PA-D08
Masashi Mukaida	Low temperature firing for fluorine free metal organic decomposition films on clad tapes M. Mukaida ¹ , I. Yamaguchi ² , A. Ichinose ³ ¹ Kyushu University, ² AIST, ³ CRIEPI	PA-D09

		Influence of conversion condition on superconducting properties in tfa-mod (y,gd)bcO coated conductors T. Komine ¹ , D. Takano ¹ , S. Hatori ^{1,2} , R. Kawaguchi ^{1,2} , M. Miura ^{1,2} , Y. Takagi ³ , K. Nakaoka ³ , M. Yoshizumi ³ , T. Izumi ³ , Y. Shiohara ³ ¹ Graduate School of Science and Technology, Seikei University, 3-3-1 Kichijoji-Kitamachi, Musashino-shi, Tokyo 180-8633, Japan ² JST-ALCA, 7, Gobancho, Chiyoda-ku, Tokyo 102-0076, Japan ³ Superconductivity Research Laboratory, ISTEK, 10-13, Shinonome 1-chome, koto-ku, Tokyo 135-0062, Japan	PA-D10
	Jean-Louis Soubeyroux	Effect of seed layer and solution concentration on La₂Zr₂O₇ buffer layers for coated conductors J.-L. Soubeyroux, S. Petit, Ph. Odier Institut Néel/CRETA/CNRS, 25 avenue des Martyrs, PO BOX 166, 38042 GRENOBLE Cedex, France	PA-D11
	Patrick Pahlke	Development of YBCO coated conductor architectures based on highly textured IBAD-TiN layers P. Pahlke, R. Gärtner, J. Hänisch, L. Schultz, B. Holzappel, R. Hühne IFW Dresden, P.O. Box: 270116, 01171 Dresden, Germany	PA-D12
	Akihiro Tsuruta	Remarkable superconducting properties and microstructures in BaHfO₃ doped SmBa₂Cu₃O_y film fabricated by alternating target technique on PLD method A. Tsuruta ¹ , Y. Yoshida ¹ , Y. Ichino ¹ , S. Miura ¹ , Y. Sawano ¹ , A. Ichinose ² , M. Kiuchi ³ , S. Otake ³ , K. Matsumoto ³ , S. Awaji ⁴ ¹ Nagoya University, Furo-cho, Chikusa-ku, Nagoya 464-8603, Japan, ² CRIEPI, 2-6-1 Nagasaka, Yokosuka, Kanagawa 240-0196, Japan, ³ Kyushu Institute of Technology, 1-1 Sensui-cho, Tobata-ku, Kitakyushu 804-8550, Japan, ⁴ Tohoku University, 2-1-1 Katahira, Aoba-ku, Sendai 980-8577, Japan	PA-D13
	Andrea Augieri	Optimization of MOD-LZO films as buffer layer for YBCO coated conductors A. Augieri ¹ , A. A. Angrisani ¹ , V. Galluzzi ¹ , F. Fabbri ¹ , F. Rizzo ¹ , A. Mancini ¹ , A. Rufoloni ¹ , A. Vannozzi ¹ , G. Celentano ² , M.R. Mancini ² , G. Sotgiu ³ , E. Silva ⁴ , N. Pompeo ⁴ , K. Torokhtii ⁴ , E. Bemporad ⁵ ¹ ENEA - Superconductivity Laboratory, Via Enrico Fermi 45, 00044 Frascati (Rome), Italy ² ENEA - Materials and Technology Laboratory, Via anguillarese 301, 00123 S.Maria di Galeria (Rome), Italy ³ Università di Roma Tre - Applied Engineering Department, Via della Vasca Navale 84, 00146 Rome, Italy ⁴ Università di Roma Tre - Physics Department, Via della Vasca Navale 84, 00146 Rome, Italy ⁵ Università di Roma Tre - Engineering Department, Via della Vasca Navale 79, 00146 Rome, Italy	PA-PD04
	POSTER SESSION PB		
13.30 - 14.30 Thursday	Arend Nijhuis	Temperature, current and magnetic field dependence of the minimum quench energy and normal zone propagation velocity in an YBCO coated conductor J. van Nugteren, M. Dhalle, W.A.J. Wessel, A. Nijhuis, H.H.J. ten Kate University of Twente, Faculty of Science and Technology, P.O. Box 217, 7500AE Enschede	PB-E08
	Igor Rudnev	Application of contactless measurements for study of local transport characteristics of coated conductors under bending strain I. A. Rudnev, A. I. Mareeva, N. A. Mineev, O. I. Svistunova, S. V. Pokrovskiy National Nuclear Research University "MEPHI", 31 Kashirskoe shosse, Moscow, Russia 115409	PB-E09
	Danko van der Laan	Anisotropic reversible strain effect on the critical current and flux pinning force in REBCO coated conductors D.C. van der Laan ^{1,2} , J. F. Douglas ³ , L. F. Goodrich ² , X.F. Lu ^{1,2} , D. Abrahimov ⁴ , A. A. Polyanskii ⁴ , D. C. Larbalestier ⁴ , M. Bauer ⁵ , R. Semerad ⁵ ¹ Advanced Conductor Technologies, Boulder, CO 80301, USA ² University of Colorado, Department of Physics, Boulder, CO 80309, USA ³ Currently with Intel Corporation, Hillsboro, OR 97124 USA. ⁴ National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL32310, USA ⁵ Theva Dunnschichttechn. GmbH, D-85737 Ismaning, Germany	PB-E10
	Dimitry Sotnikov	Influence of mutual directions of external magnetic field and transport current on critical currents of 2G HTS tapes D. V. Sotnikov, I. P. Radchenko, S. S. Fetisov, V. S. Vysotsky Russian Scientific R&D Cable Institute, Moscow, 111024, Russia	PB-E11
	Pavel Degtyarenko	Electrothermal stability limit of 2g HTS tape in liquid nitrogen P. N. Degtyarenko, I. N. Dul'kin, L. M. Fisher, G. I. Garas'ko, A. V. Kalinov, S. B. Vavilov, I. F. Voloshin All-Russian Electrical Engineering Institute, 12 Krasnokazarmennaya Str., Moscow 111250, Russia	PB-E12
	Cees Thieme	Second Generation Wire Development for Multiple HTS Applications C. Thieme AMSC (American Superconductor), 64 Jackson Rd, Devens MA 01434, U.S.A	PB-E14

	<i>Michal Vojenciak</i>	Transport AC loss in REBCO coated conductor at various temperatures M. Vojenciak ¹ , F. Grilli ¹ , A. Kling ¹ , B. Dutoit ² ¹ Karlsruhe Institute of Technology, Institute for Technical Physics, Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany ² École Polytechnique Fédérale de Lausanne, Lausanne 1015, Switzerland	PB- E15
	<i>Sandra Drotziger</i>	Investigation of quench behavior in ReBCO coated conductors with different stabilizers S. Drotziger, C. Barth, W. H. Fietz, W. Goldacker, M. Heiduk, R. Heller, C. Lange, R. Lietzow, R. Nast, E. Rizzo Karlsruhe Institute of Technology, Institute for Technical Physics, Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany	PB- E16
	<i>Philipp Krüger</i>	Preparation and measurement of magnetically shielded YBCO CCs P. Krüger, F. Grilli, Ch. Barth, M. Vojenciak, R. Nast Karlsruhe Institute of Technology, Institute for Technical Physics, Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany	PB- E17
	<i>Sonja Schlachter</i>	HTS magnets for radiation blackout mitigation S.I. Schlachter, A. Kario, W. Goldacker Karlsruhe Institute of Technology, Institute for Technical Physics, Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany	PB- F06
	<i>Andrej Kudymow</i>	2G HTS Material Selection, Optimization, Insulation and the Resulting Component Design of the ECCOFLOW Resistive Fault Current Limiter A. Kudymow, S. Elschner, W. Goldacker, S. Fink Karlsruhe Institute of Technology, Institute for Technical Physics (ITEP), Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany	PB- F07
	<i>Guangtong Ma</i>	Thermo-electromagnetic properties of a magnetically shielded superconductor strip: Theoretical foundations and finite-element simulations Guangtong Ma ^{1,2} and Hermann Rauh ¹ ¹ Institut für Materialwissenschaft, Technische Universität Darmstadt, 64287 Darmstadt, Germany ² Applied Superconductivity Laboratory, Southwest Jiaotong University, 610031 Chengdu, China	PB- F08
	<i>Simon C. Hopkins</i>	Composite coated conductor structures for high field permanent magnet applications Anup Patel ¹ , Simon C Hopkins ¹ , Bartek A Glowacki ¹ ¹ Department of Materials Science and Metallurgy, New Museums Site, University of Cambridge, Cambridge, CB2 3QZ, UK.	PB- G08
	<i>José Samuel Millan</i>	Equation of continuity for the current density in a superconductor wire connected to a battery J. S. Millan ¹ , S. M. Penagos ¹ , M. A. Rodríguez ¹ , L. A. Perez ² ¹ Facultad de Ingeniería, Universidad Autónoma del Carmen, Cd. del Carmen, C.P. 24180, Campeche, México. ² Instituto de Física, Universidad Nacional Autónoma de México (UNAM), A.P. 20-364, C.P. 01000, México D.F., México.	PB- H05
	<i>Alexander Nosov</i>	Current carrying element made of stacked-twisted tapes A. A. Nosov All-Russian R&D Institute of Cable Production, 5, Shosse Entuziastov, Moscow, Russia	PB- H06
	<i>Anna Kario</i>	Pancakes coils made from 5 m long ROEBEL assembled coated conductor cable A. Kario, M. Vojenciak, A. Kling, A. Jung, J. Willms, U. Walschburger, W. Goldacker Karlsruhe Institute of Technology, Institute for Technical Physics, Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany.	PB- H07
	<i>Suguru Gangi</i>	Contactless measurement on angular dependent J_c in REBCO coated conductor Suguru Gangi ¹ , Masahito Hiromatsu ¹ , Kazutaka Imamura ¹ , Kohei Higashikawa ¹ , Masayoshi Inoue ¹ , Takanobu Kiss ¹ , Masateru Yoshizumi ² , Teruo Izumi ² , Hiroshi Tobita ³ , Takashi Saito ³ ¹ Kyushu University: W2-524, 744 Motoooka, Nishi-ku, Fukuoka 819-0395, Japan ² International Superconductivity Technology Center (ISTEC) ³ Fujikura, Ltd.	PB- PD01
	<i>Atsushi Yamamoto</i>	Non-destructive characterization of REBCO slit coated conductor based on reel-to-reel scanning Hall probe magnetic microscopy Atsushi Yamamoto ¹ , Kohei Higashikawa ¹ , Kenta Katahira ¹ , Masayoshi Inoue ¹ , Takanobu Kiss ¹ , Yuki Shingai ² , Masaya Konishi ² , Kazuya Ohmatsu ² , Masateru Yoshizumi ³ , Teruo Izumi ³ ¹ Kyushu University: W2-524, 744 Motoooka, Nishi-ku, Fukuoka 819-0395, Japan ² Sumitomo Electric Industries, Ltd. (SEI) ³ International Superconductivity Technology Center (ISTEC)	PB- PD02
	<i>De La Rosa</i>	Scaled model of inductive shielded superconducting fault current limiter: first test results A. Henning ¹ , A. Usoskin ² , S. Schmidt ¹ , K. Bäuml ³ , T. Janetschek ⁴ , F. Moriconi ⁵ , F. De La Rosa ⁵ ¹ Bruker ASC GmbH, Bergisch Gladbach, Germany, ² Bruker HTS GmbH, Alzenau, Germany, ³ Schneider Electric Sachsenwerk GmbH, Regensburg, Germany, ⁴ Stadtwerke Augsburg, Augsburg, Germany, ⁵ Bruker EST, Fremont, CA, USA	PB- PD03

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