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TUESDAY, OCTOBER 6, 2015 | 8:00 AM to 11:50 AM

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14-1 (8:00) Micro Optical Cables System - A Solution to Brazilian Market - J.C.V. da Silva, E.L.A.S. de Souza, F.G. Corcini and A.R. Sampaio, Prysmian Draka Brazil S/A, Sorocaba, Brazil; J.G.D. de Aguiar and B.N. Aires, CPqD, Campinas, Brazil 592

14-2 (8:25) Installation and Access of a Novel Stranded Loose Tube Optical Fiber Outside Plant Micro Cable Design - J.L. Baucom, P. Tandon and L.A. Barrett, Corning Inc., North Carolina, USA 598

14-3 (8:50) 288 Fiber Ultra-High Fiber Density Micro-Duct Cable with Extreme Operating Performance - J. Quinn, AFL, South Carolina, USA; and O. Storaasli, Dura-Line, Tennessee, USA 606

14-4 (9:15) High Density Micro Cable Family with Next Generation 200 Micron Fibers - S. Olszewski, Corning Optical Communications Polska, Stryków, Poland; J. Toughlian, Corning Optical Communications, North Carolina, USA; M. Emmerich, Corning Optical Communications GmbH & Co., KG, Berlin, Germany; and K. Smith, Corning Optical Communications LLC, North Carolina, USA 612

THURSDAY, OCTOBER 8, 2015, 12:30 PM – 3:30 PM

SESSION 15: CODES AND STANDARDS | Hanover C

Chairperson: Steven A. Galan, Underwriters Laboratories, Inc., New York, USA

15-1 (12:30) Solutions for Navigating Product Sustainability and Transparency Demands to Maximize Market Opportunity - A. Mayer, P. Firth and A. Nicholson, UL Environment, Georgia, USA 617

15-2 (12:55) UL Standard Revisions and Proposals, Tri-National Standard Harmonization Activities - A.T. Tassone, Underwriters Laboratories LLC, New York, USA; and S. Stene, Underwriters Laboratories LLC, California, USA 621

15-3 (1:20) Europe Turns up the Heat on Construction Cables - J. Hodge and G. Stainthorpe, BASEC, Milton Keynes, United Kingdom 625

15-4 (1:45) Fiber Optic Cable Standards - What's New in CENELEC? - W. Stöcklein, Corning Optical Communication, Berlin, Germany; L. Diakité, Sycabel, Paris, France 629

BREAK (2:10 – 2:40) – iPad drawing (must be present to win)

15-5 (2:40) Resistance to Fire of Communication Cables According to European Standards - M. Maritano, P. Marelli and A. Waßmuth, Prysmian SpA, Milano, Italy; J. Hennink and J. Jonker, Draka Comteq Telecom, Farmsum, The Netherlands; and N. Mabbott, Draka Comteq UK Ltd., Washington, United Kingdom 638

15-6 (3:05) IEC Standardization of Optical Fibres and Cables - B. Arvidsson, Fiberson AB, Hudiksvall, Sweden; G. Kuyt, Prysmian Group, Eindhoven, The Netherlands; and M. Kinard, OFS, Georgia, USA 644

SESSION 16: HIGH DENSITY OPTICAL FIBER CABLE & AERIAL CABLE | Hanover FG

Chairperson: Tomoyuki Hattori, Sumitomo Electric Ind., Ltd., Yokohama, Japan

16-1 (12:30) Development of Ultra High-Count and High-Density Optical Fiber Cable (2000 Coures) - N. Nakagawa, S. Hamaguchi, Y. Endo, K. Omoto, Y. Shibata and Y. Aoyagi, NTT Corp., Ibaraki, Japan 655

16-2 (12:55) Optical Design of Ultra-High-Density 2000-Optical Fiber Cable with Pliable 8-Fiber Ribbons for Underground Deployment - F. Sato, M. Takami, Y. Nagao, K. Takeda and H. Kato, Sumitomo Electric Industries, Ltd., Yokohama, Japan 659

16-3 (1:20) Development of 2000-Fiber Ultra-High Density Underground Cable - N. Itoh, M. Isaji, K. Osato, M. Yamanaka and N. Okada, Fujikura Ltd., Chiba, Japan 664

16-4 (1:45) Technique for Housing Optical Fibers in Underground Closure Applied Ultra High-Count and High-Density Optical Fiber Cable - M. Nogami, K. Nitta, R. Tanaka, K. Nishimura and Y. Aoyagi, NTT East and West Corporation, Ibaraki, Japan 669

**BREAK (2:10 – 2:40) – iPad drawing
(must be present to win)**

16-5 (2:40) New Ultra-Density Fiber Cable Technology for FTTx and Access Markets Using New Spider Web Ribbon - P. Dobbins and B. Villiger, AFL, South Carolina, USA 674

16-6 (3:05) Development of a Totally Dry Aerial Dielectric Self Support Cable Family - T. Goddard and R. Norris, OFS, Georgia, USA 684

SESSION 17: ENSURING A RELIABLE OPTICAL NETWORK I Hanover AB

Chairperson: Eric R. Logan, Corning Optical Communications LLC, North Carolina, USA

17-1 (12:30) Long Span Aerial Cable Installation Technology - K. Kawaguchi, R. Yasui, K. Shimokubo and K. Takamizawa, NTT Corporation, Ibaraki, Japan 689

17-2 (12:55) Revealing the Losses in Installed Fiber Cable Links Consisting of Cables of Different Age by OTDR Measurements at Several Wavelengths - S. Hopland, Telenor Norway, Fornebu, Norway 692

17-3 (1:20) Microscope Integrated with an Optical Connector Cleaner - Y. Higuchi, K. Hadama and J. Yamaguchi, NTT Corporation, Kanagawa Pref., Japan; and T. Miura, NTT Advanced Technology Corp, Tokyo, Japan 699

17-4 (1:45) New Optical Fiber Identifier - K. Matsuoka, S. Niimi, M. Miyamoto and H. Sugawara, Fujikura Ltd., Sakura, Japan 704

**BREAK (2:10 – 2:40) – iPad drawing
(must be present to win)**

17-5 (2:40) Temporary Optical Coupler and Dynamic Delay Adjustment Technologies for Optical Cable Re-Routing Operation Support Systems - T. Manabe, M. Inoue, H. Hirota, T. Kawano, T. Uematsu, K. Okamoto, T. Kiyokura, Y. Koshikiya and K. Katayama, NTT Corporation, Ibaraki, Japan 709

17-6 (3:05) Development of De-Icing OPGW - L. Ming, X. Yongjun, M. Chunyan and Z. Houpeng, Zhongtian Power Optical Cable Co., Ltd., Nantong, P.R. China; W. Daogen and M. Jingjing, Jiangdong Fittings Equipment Co., Ltd., Nantong, P.R. China 715

SESSION 18: FLAME RETARDANT TECHNOLOGY I Hanover DE

Chairperson: Daniel Winkler, Leoni Engineering Products & Services Inc., Michigan, USA

18-1 (12:30) Novel Strategies for Imparting Flame Retardancy to Polyolefins - B. Chaudhary, J. Cogen, M. Mundra and A. Batra, The Dow Chemical Co., Pennsylvania, USA 720

18-2 (12:55) Novel Polymeric, Non-Halogenated Flame Retardants for Use in Thermoplastic Elastomers - J-P. Lens and K. Trudel, FRX Polymers, Massachusetts, USA 728

18-3 (1:20) A New Technology Platform for Moisture Curable Non Halogen Flame Retardant Polyolefin - B. Sultan, S. Nilsson and O. Prieto, Borealis AB, Stenungsund, Sweden; S. Song, L. Westling and B. Fajardo, Borealis Compounds Inc., New Jersey, USA; and A. Watson, Borealis Polymers N.V., Mechelen, Belgium 731

18-4 (1:45) Not Your Grandfather's LSZH - E.W. Bates and M. Vassallo, General Cable, Indiana, USA 743

**BREAK (2:10 – 2:40) – iPad drawing
(must be present to win)**

18-5 (2:40) Quantification of the Flexibility of Flame Retardant Insulation and Jacket Materials When Designing Wire & Cable Products - P. Lorigan, T & T Marketing, Inc., Pennsylvania, USA 749

18-6 (3:05) Enhanced Solvent Resistance and Flammability Requirements for Harsh Environment and Industrial Optical Fiber Cables - B.G. Risch, R. Lovie and P. Baird, Prysmian Group, North Carolina, USA 755