



**Cable & Connectivity
Industry Forum™**

by **IWCS**

SEPTEMBER 17 – 20, 2023 | ORLANDO, FLORIDA, USA

Event Program, Schedule, & Exhibitor Directory

#IWCS2023

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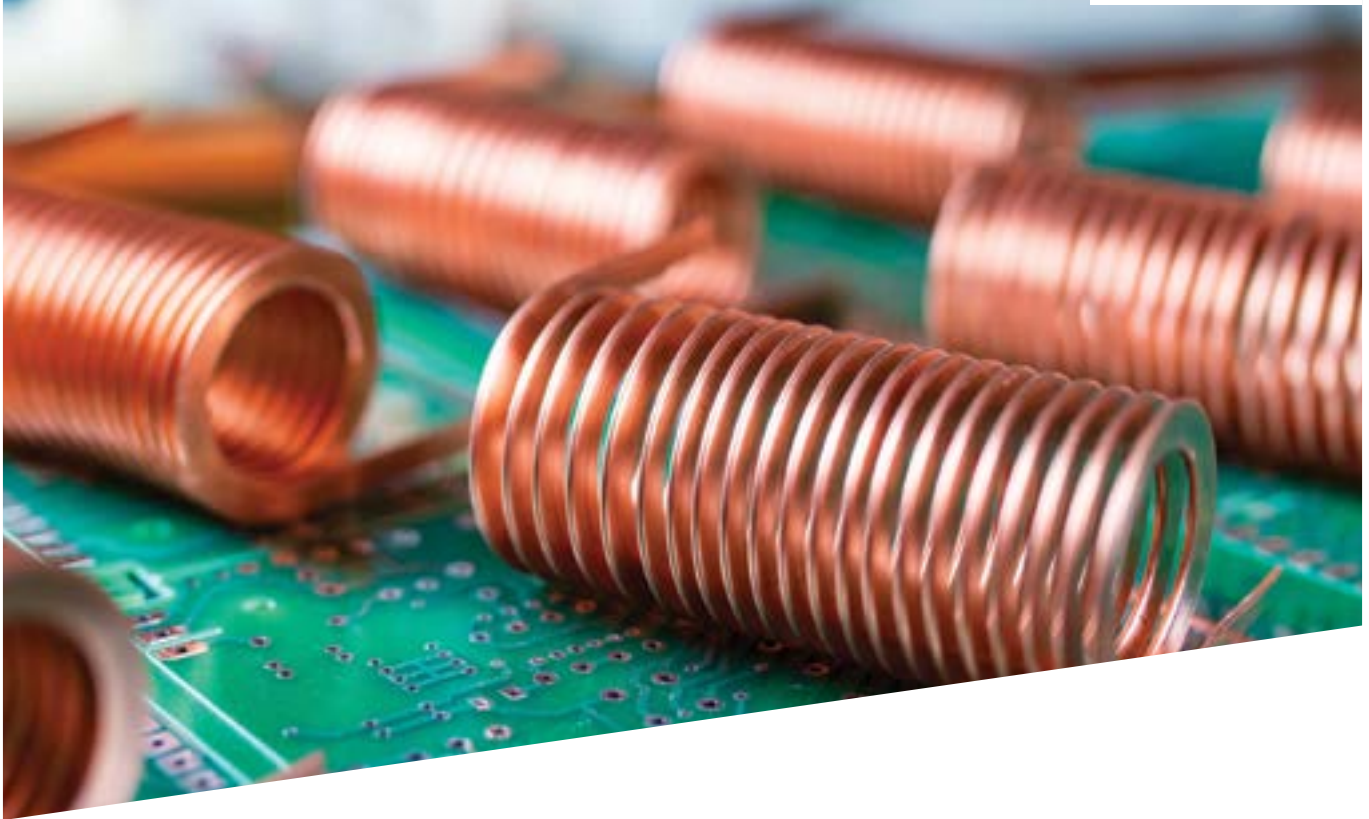
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• • • IWCS BOOTH 116 • • •

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Wire & Cable Technology International (WCTI) magazine is the official media partner of IWCS. IWCS appreciates

WCTI's support organizing the advertisements and exhibitor descriptions that are included in this program. Visit wiretech.com to subscribe to Wire & Cable Technology International magazine.

WELCOME TO ORLANDO!

Thank you for joining us at the 2023 IWCS Cable & Connectivity Industry Forum! This is the 72nd annual IWCS Conference, which is a testament to the value that we continue to bring to you and your international cable and connectivity industry colleagues. The vitality of IWCS is demonstrated through the strong industry support from our annual sponsors, exhibitors, speakers, and attendees. This event continues to be the premier event for new technologies in cable and connectivity products, processes, and applications thanks to the rich Technical Symposium content contributed by our colleagues from around the world.

Don't miss a thing! When you are at the IWCS Forum, be sure to use the attendee portal to quickly access event information such as the most up-to-date Final Program, event schedule, Supplier Exhibition™ floor plan, Technical Symposium papers, and more. Want to view a Technical Paper or speaker bio? Visit the event portal to use the searchable database of Technical Papers or access the Proceedings*, an e-book which contains all of the Technical Papers and Forum presentation content.

Our most important goal is to meet all of your expectations for a valuable learning and networking experience.

Enjoy the IWCS Cable & Connectivity Industry Forum! Tag the event on social media using **#IWCS2023**.

*The IWCS Proceedings are available in a digital format that is available to registered full-access attendees.

ON-SITE REGISTRATION SCHEDULE

Registration and badge pick-up is at the Sun Ballroom Lobby on Level 2 of the Gaylord Palms Convention Center during the following hours. All conference attendees must register and obtain a badge. Badges must be worn at all times. Dress code is business casual.

Saturday	September 16, 2023	3:00 PM – 6:00 PM
Sunday	September 17, 2023	7:00 AM – 6:00 PM
Monday	September 18, 2023	7:00 AM – 6:00 PM
Tuesday	September 19, 2023	7:00 AM – 6:00 PM
Wednesday	September 20, 2023	7:00 AM – 3:00 PM

IWCS Photography Policy Attendance at, or participation in, this conference constitutes consent to the use and distribution by IWCS of the attendee's image or voice for informational, publicity, promotional, and/or reporting purposes in print or electronic communications media. Video Recordings by participants and other attendees during any portion of the conference is NOT allowed without prior written permission of IWCS. Photographs of copyrighted, confidential and/or proprietary PowerPoint or other Presentation Slides are not to be taken, reproduced or distributed. Do NOT photograph any such images without prior permission of the Author / Presenter.

SAVE THE DATES FOR THE 2024 IWCS FORUM
Monday, October 14 – Thursday, October 17, 2024
Providence, Rhode Island, xUSA

[Refer to details on page 22.](#)

TECHNICAL SYMPOSIUM | Tuesday and Wednesday | [See conference schedule for rooms and times](#)



Open to everyone with **Full-Access** registration

Your IWCS Symposium Committee has generated an extremely high-caliber program for the IWCS Technical Symposium, the cornerstone of the Cable & Connectivity Industry Forum. The IWCS Technical Symposium is recognized around the world as the premier technology event for cable and connectivity. The Symposium allows attendees to experience previously unpublished Technical Papers featuring research and development for cabling and connector / interconnect technologies, designs, components, materials, fabrication, performance, testing and applications.

EXECUTIVE SESSION | Monday, 8:00 AM – 11:45 AM | [Sun Ballroom C/D](#)



Open to everyone with **Full-Access** registration

The Executive Session is the catalyst of the event, kicking off the first day of the Forum on Monday, after Sunday's optional Professional Development Courses. The Executive Session is designed for the general management of the cable & connectivity industry supply chain companies. Important issues and economic trends facing the industry in these uncertain times will be addressed by expert speakers. You will not want to miss this provocative and insightful session!

PLENARY LUNCHEON WITH KEYNOTE | Monday, 12:00 PM – 1:45 PM | [Exhibit Hall B](#)



Open to everyone with **Full-Access** registration

Taking place during the Plenary Luncheon on Monday, Scott Klososky's keynote presentation, "Disruptive Opportunities: Building the Ambient Intelligence Backbone" promises to be a highlight of this year's Forum. Additionally, awards recognizing the best papers and presentations from last year will be presented during the Plenary.

PANEL DISCUSSIONS | Tuesday, 10:30 AM–11:45 AM | Tuesday, 3:05–4:25 PM | Wednesday, 10:30–11:45 AM



Open to everyone with **Full-Access** registration

IWCS has partnered with Chemours, UL Solutions, and Prysmian PowerLink to deliver panel discussions featuring emerging technologies and sustainable solutions for the industry. The moderated discussions will include a panel of experts and a question-and-answer period that allows the audience to engage with the panelists.

PROFESSIONAL DEVELOPMENT COURSES | Sunday | [See conference schedule for rooms and times](#)



Open to everyone who registered for **Professional Development Courses**

IWCS is offering the annual core Professional Development Courses of Copper 101, Fiber 101, Materials 101 and Extrusion 101 as well as three special elective courses: Materials 211, Copper 202, and Fiber 212. Instructed by renowned industry experts, these courses provide introductory topical information and are geared towards engineers, scientists, and other professionals who are new to the industry, or those who seek a refresher. Professional Development Courses commence on Sunday morning with four concurrent courses in the morning, a boxed lunch for students and instructors, and three additional courses in the afternoon.

SUPPLIER EXHIBITION™ | Monday, 2:00 – 6:00 PM & Tuesday, 10:00 AM – 6:00 PM | [Exhibit Hall A](#)



Open to everyone with **Full-Access** or **Supplier Exhibition™ Only** registration

The IWCS Supplier Exhibition™ allows over 80 exhibitors to display cutting-edge products and services. Visit the exhibition to network with supply chain leaders and experience a wide variety of product technologies and user applications. Don't miss the special Supplier Spotlight Session, taking place Tuesday from 2:00 –6:00 PM, where suppliers present the latest innovations. Refreshments will be offered during the Supplier Exhibition on Tuesday and Wednesday evening.

"HAVANA NIGHTS" HOSPITALITY RECEPTION | Monday, 6:00 PM – 7:30 PM | [Coquina Lawn](#)



Open to everyone with **Full-Access** registration

Attendees are invited to a cocktail reception on Monday evening immediately following the Suppliers Exhibition™. Join us to enjoy drinks and light hors d'oeuvres with your colleagues to network and wind down from a full day, prior to your dinner plans. You don't want to miss this fun-filled "Havana Nights"-inspired networking event!

GAYLORD PALMS RESORT MAP

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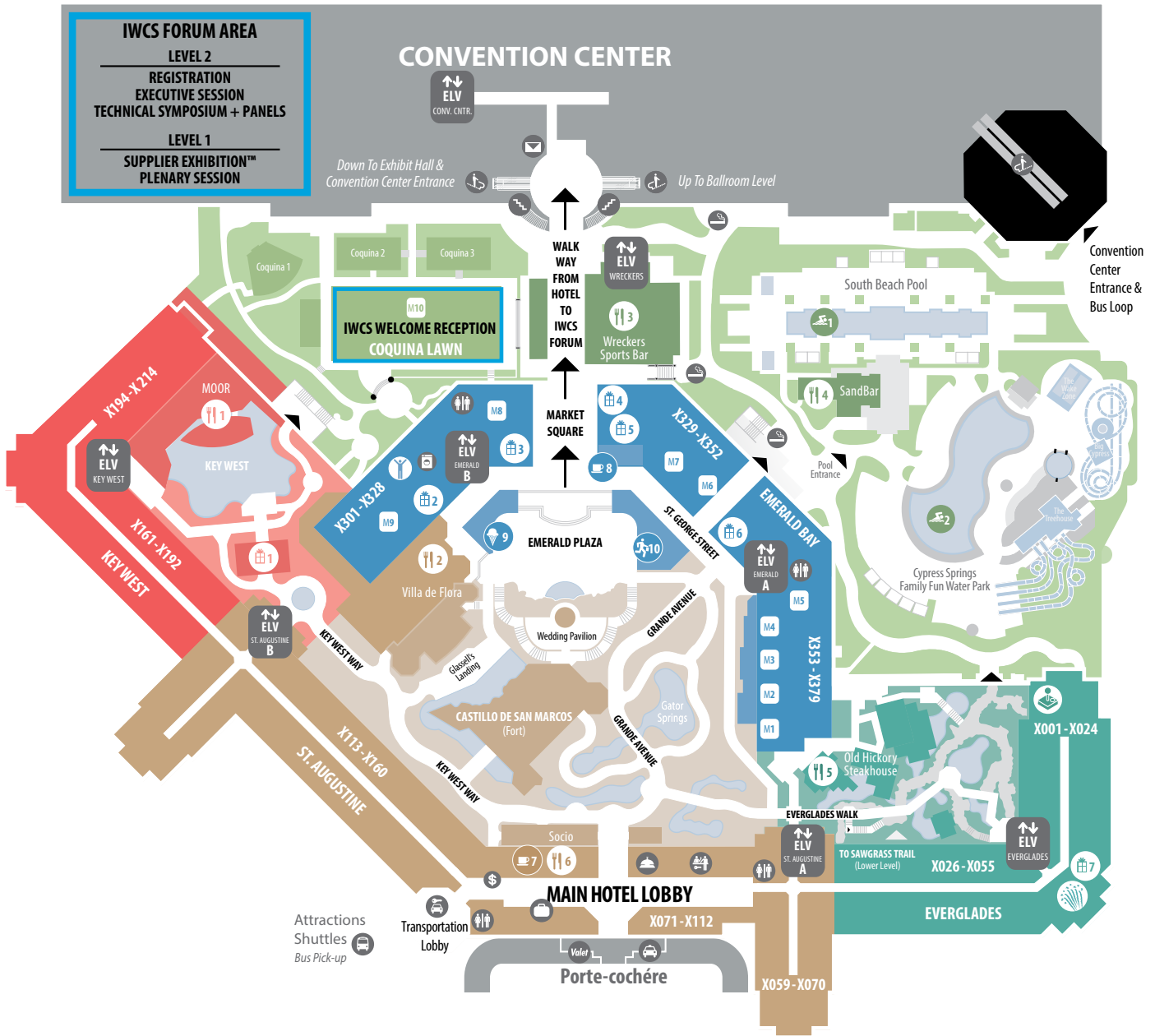
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EXHIBITOR DESCRIPTIONS



COLOR LEGEND

- St. Augustine
- Key West
- Emerald Bay
- Everglades
- Convention Center
- Property Grounds

KEY

- Concierge
- Front Desk
- Valet
- Bus
- Taxi
- Car Rental
- Bell Services
- Smoking Area
- Restrooms
- Elevator
- Stairs
- Escalator
- FedEx Office Business Center
- ATM
- Guest Laundry (Lower Level)

DINING & DRINKS

- MOOR
- Villa de Flora (Mediterranean Buffet)
- Wreckers Sports Bar
- SandBar
- Old Hickory Steakhouse
- Socio

EATERY

- The Cocoa Bean Express
- The Cocoa Bean Coffee House
- Honeybells Frozen Yogurt
- Emerald Bay Marketplace

SHOPPING

- Mallory Square Market
- Island Paradise
- Emerald Bay Emporium
- PGA TOUR Shop
- Brighton Collectibles
- Alligator Alley
- Relâche Spa Boutique

AMENITIES

- Arcade
- Relâche Spa (Lower Level)
- Relâche Fitness Center (Lower Level)
- South Beach Pool (Adults Only)
- Cypress Springs Family Fun Water Park

MEETING SPACE

- M1 102 St. George Meeting Room
- M2 104 St. George Meeting Room
- M3 106 St. George Meeting Room
- M4 108 St. George Meeting Room
- M5 Emerald Meeting Rooms (Lower Level)
- M6 St. George Meeting Rooms, 112 - 114
- M7 Orange Blossom Ballroom
- M8 Boardrooms (Level 4)
- M9 Palm Beach Meeting Room
- M10 Coquina Lawn

PRIMARY IWCS FORUM AREA

TRADE SHOW INVENTORY HIGHLIGHTS



D-S 2", 24:1 Therm III Extruder, Hi-Temp
EXP1467



Setic 630mm BT POs, Yr 2019 (2)
CBR1435



Viteck 3 1/2" Fiber Jacketing Line
EXPL416



Rosendahl 500mm Ribbon Strander, 12+12
CBR1171



D-S 4 1/2" Therm III Jacket Line
EXPL492



TEC 8W HS Backtwist Payoffs
CBR1437

- CBR1448 – **Tensor** SZ Oscillator
- CBR1442 – 630mm **Setic** Dual Reel Backtwist PO, DVD630HV
- CBR1432 – 760mm **Kinrei** DT Bunchers, S/L PO, Yr 2007
- CBR1426 – 24", 6W, **Watson** Planetary Cabling Line, PO/TU
- CBR1372 – 10" **Tensor** 6W Planetary Strander, Driven, Yr 2007
- CBR1371 – 16" **Nextrom** 36W Planetary Fiber Ribbon Strander
- CBR1369 – 630mm **Northampton** Double Twist Twinner, Model
- CBR1353 – 30" **Ceeco** Planetary Line, 12+18, Dual Ecc Taper, 84" TU
- CBR1339 – **Tensor** SZ Strander, 8 Plates
- CBR1330.2 – 36" **Cook** Single Twist Buncher, 600 RPM
- CBR1273 – 72" **Ceeco/Nextrom** Drum Twisting Line, Yr 2000
- CBR1001 – 400mm **Nokia Malleifer** 12W Fiber Planetary Strander
- BIN238 – 400mm **Roblon** Taper/Binder, Model TBX400, Yr 2007
- BIN217 – **Tensor** Dual Concentric Binder, Model BC-4000-DSRL (NEW)
- TPR448 – 400mm **Queins** Dual Eccentric Taper, AB PLC, AC Motor
- CLR314 – 18" **MGS** Auto Dual Coiler, Model 902FAT18
- DAN648 – **Tensor** Vertical Takeup Dancer
- DAN625 – **Windak** 18' Vert Accum, 10 Pass, 600mm Sheaves, Servo
- DAN621 – **MGS** 500' Vertical Accumulator, Motorized, 12" Sheaves
- DAN617 – 20" **Davis Electric** Vertical Accumulator, 12' High, 18x19
- DAN592 – 20" **Viteck** O.H Accum, Model HA-600-20, AC Vector Motor
- DAN569 – **Inventure** Stuff Box Tape Accumulator, Yr 2012, 2HP AC
- CAT672 – 60" **Davis Standard** Belt Caterpuller, 10 HP DC, L-R
- CAT649 – 1.2m **Malleifer** Belt Caterpuller, L-R, AC Drive, Yr 2011
- CAT569 – 72" **MGS** Belt Caterpuller, 10 HP DC, L-R

- EXPL469 – 4 1/2" **Davis Std** Jacket Line, 2m **Skaltek** TU's, 36" Cat
- EXPL453 – 3 1/2" **Davis Std.** Line w/ **MGS** Dual 36" TU, Vert Accum
- EXPL417 – **Davis Standard** 2" Hi Temp Extrusion Line, EKP800 TU
- EXRL44 – 3 1/2"/3 1/2" **Davis Std** Rubber Ext Line, **Clipper** PA-1000
- EXP1488 – 4 1/2" **Davis Standard**, 24:1, Thermatic III Extruder, 150HP
- EXP1430 – 1 1/4" **Davis Standard**, 24:1, Vertical Extruder, AC Drive
- EXP1416.1 – 100mm **Malleifer**, 24:1, Extruder, 156kW AC Motor
- EXP1388 – 2 1/2" **Davis Std** Extruder, 24:1 Therm III 40HP DC, Port
- EXP1092 – 4 1/2" **Davis Std** Extruder, 24:1, Therm II, X-800 Liner
- EXP1066 – 3 1/2" **Davis Standard** Extruder, 24:1, Thermatic III (3)
- TKU1713 – 36" **Davis Standard** HSDR-36, S/L Dual Reel Takeup
- TKU1711 – 30" **Davis Standard** DR-30, Dual Reel Takeup, AB PLC
- TKU1707 – 2.5m **Wuxi Sunan/Bartell** Portal TU, A-B PLC, Yr 2013 (2)
- TKU1682 – 500mm **Fine** Parallel Shaft Dual Reel TU, Siemens PLC
- TKU1641.2 – 2.6m **Skaltek** U26T, Portal Floor Trav TU, 12,000 kg (3)
- TKU1589 – 30" **Clipper** Dual TU, Parallel Axis, Shaft Model PA-30
- TKU1178 – 500mm **Nextrom** Dual Reel Takeup, EKP-50
- PAY2456 – 1250mm **Roblon** S/L Payoff, Model PA1250, Driven
- PAY2281 – **MGS** Dual Tape Payoff w/15' Vert Accum, AB PLC
- PAY2154 – 36" **Fine** S/L Driven Payoffs w/ Dancers (8)
- PAY2124 – 72" **Ceeco** Shaftless Payoff, Hyd Lift-In/Out, Air Brake.
- PAY1973 – 84" **AIM** Shaftless Payoff, Drag, Hydraulic Lift
- RWD686 – 120" **Queins** Portal Rewind Line, Dancer, Counter
- CAP925 – 20" **AWM** Multipass (9X9) Capstan, 40', LTM20-280, DC Motor
- CAP923 – 24" **Davis Std.** Multipass (8X8) Capstan, 30' Long, DC Motor

SEE US AT BOOTH 113

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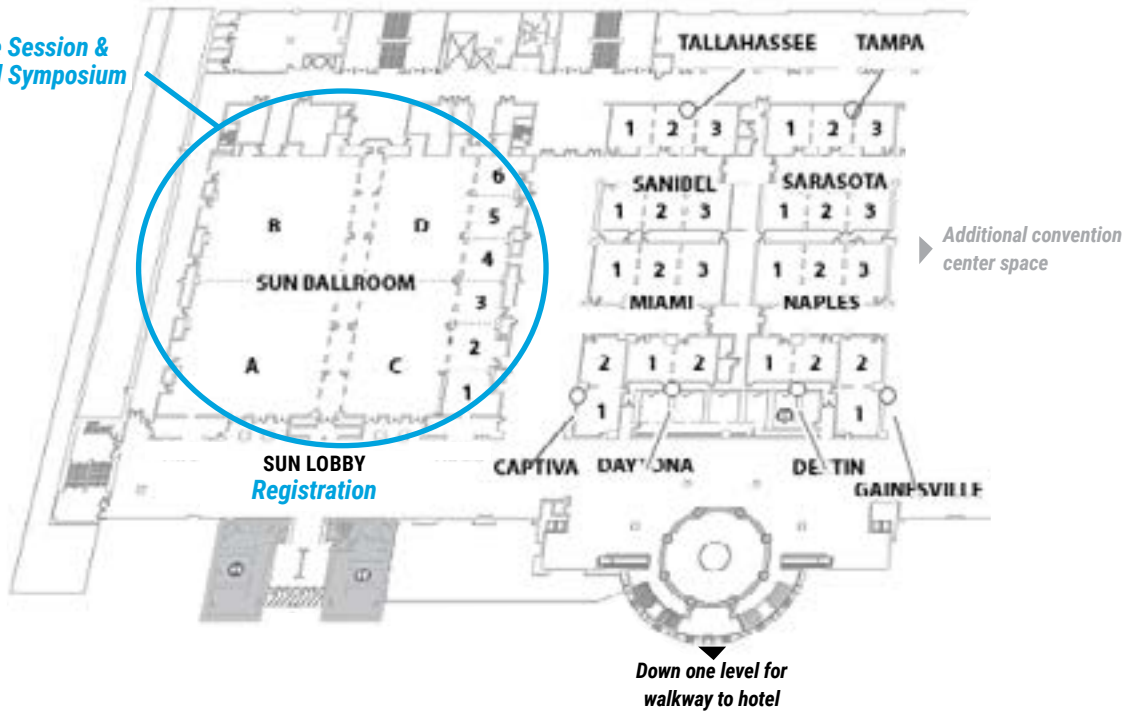
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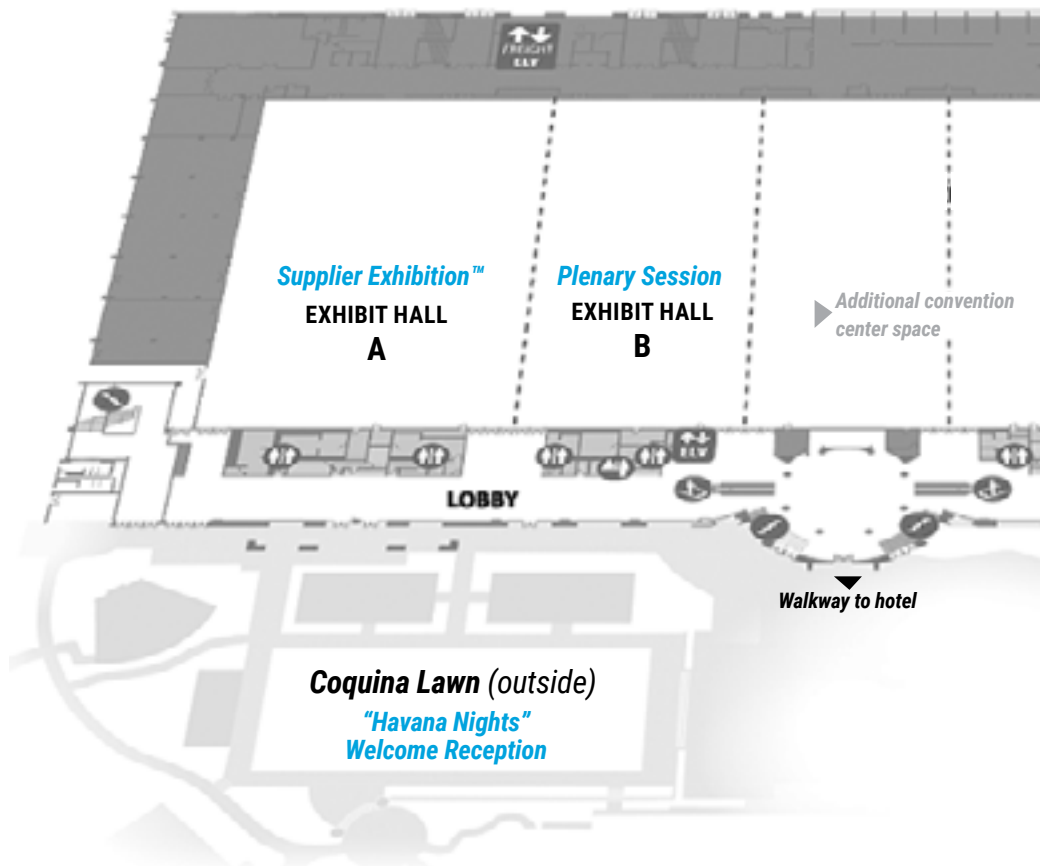
GAYLORD PALMS CONVENTION CENTER MAP

LEVEL 2 (BALLROOM LEVEL)

Executive Session & Technical Symposium



LEVEL 1 (EXHIBIT HALL LEVEL)



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VISIT US AT IWCS BOOTH 305

EXECUTIVE SESSION

Monday, 8:00 AM – 11:45 AM | Sun Ballroom C/D Registered Full-Access attendees only (Seats are Limited)

The Executive Session is designed for the general management of the wire and cable producing companies and their suppliers. Important issues facing the industry will be addressed by expert speakers in a provocative session that includes the following topics and presenters.

Metallic Wire and Cable: Recession Risk vs. Green Energy Transition

Optical Cable: Demand Growth Pared Back as Challenges Mount



Chenfei Wang, CRU

Chenfei is Head of CRU's Wire and Cable team, and works across the full portfolio of products analysing key trends and developments in both the metallic wire and cable, and optical fibre industries.

Learn about recession trends and how growing demand green energy is impacting the forecast of insulated metallic wire and cable demand around the world. Chenfei will present back-to-back presentations in this session.

Global Economic Outlook



Robert Fry, Chief Economist, Robert Fry Economics

Robert analyzes and forecasts the global economy to guide business decision-makers. He publishes a monthly newsletter, "Current Economic Conditions", and speaks on the economic outlook to corporate leadership teams, customer events, and trade association meetings. In 2018, Robert was elected a Fellow of the National Association for Business Economics, in recognition of his outstanding service as a professional business economist and his contributions to the field of business economics.

Robert Fry will discuss current conditions in the global economy and the outlook for future growth, with emphasis on U.S. manufacturing and on markets important to the wire and cable industry. In particular, he will discuss high inflation and what it implies about the likelihood of a recession in the near future. Among the topics covered will be growth in GDP and industrial production, including wire & cable production, housing starts, light vehicle sales, inflation, and interest rates.

Digital Electricity: Leading the Transition to an Energy Efficient World



Stephen Eaves, VoltServer

Stephen is the founder and CEO of VoltServer and is the inventor of Digital Electricity. The company has deployed the technology in over 1,000 large venues worldwide. Steve has more than 30 years of experience innovating around electrical energy storage, distribution, and control. Steve has authored or co-authored numerous industry and peer reviewed papers related to the energy industry and is an inventor on 35 patents.



Luis Suau, Sinclair Digital Services

Luis is the Chief Business Officer of Sinclair Digital Services and one of the original Pioneers of Power over Ethernet technology as well as a pioneer in the application of Digital Electricity to smart buildings. Luis has 40+ years of experience in IT, 26 years at Cisco in internal Consulting and R&D roles and is an inventor on 4 patents.

Digital Electricity was adopted into the National Electric Code in 2023 under the generic industry term "Fault Managed Power Systems" or FMPS. This talk will introduce the concept of Fault Managed Power Systems, its incorporation into building code, and the potential to fundamentally change the materials, practices and trade skills for electricity distribution.

Elements of an Industry Business Plan to be Successful in the World of AI and Electrification



Scott Klososky, Future Point of View, LLC.

Scott lives on the leading edge of technology and innovative thinking. Scott speaks to large audiences worldwide about the intersection of humanity and the Digital Transformation.

Scott will be sharing some of the latest thinking in leadership concepts that can be applied to a world where cabling infrastructure will soon be supporting an AI powered world. High Beam strategic improvements today will pay off well when organizations build an ambient intelligence layer that augments the decision making done by humans today.

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ENVIRONMENTAL SUSTAINABILITY AND RECYCLING FOR THE CABLE & CONNECTIVITY INDUSTRY

Tuesday, 10:30 AM – 11:45 AM | Sun Ballroom C *Registered Full-Access attendees only*



The cable and connectivity industry is mission critical to achieve our global sustainability objectives. The cables, connectors and infrastructure technology to support the convergence of data and power delivery for SMART buildings and communities will enable our sustainable future. In this Session, you will hear from renowned leaders on these initiatives and how new designs, along with the reintroduction of recycled materials in cable & connectivity products can contribute to the important balance of safety, performance and sustainability. The selection of materials, new product designs and the system network infrastructure our products provide will help us meet this critical solutions footprint.

FAULT-MANAGED POWER: A SAFE AND DISRUPTIVE INNOVATION FOR POWERING THE FUTURE

Tuesday, 3:05 PM – 4:25 PM | Sun Ballroom C *Registered Full-Access attendees only*



This panel discussion will describe a new and innovative way to deliver efficient power through a new Class of cable recently added to the 2023 National Electrical Code®. Perspectives on the applications as well as the various new technical standards and safety listing requirements for the new Class 4 fault-managed power (FMP) systems and cables will be discussed by a panel of topic experts. This discussion will describe how fault-managed equipment is a safe way to deliver hundreds or even thousands of watts of power over longer distances. It will also provide insight into its benefits, potential uses, market implications, barriers to adoption, and opportunities for ICT designers, installers, and integrators.

RENEWABLE / OFFSHORE ENERGY

Wednesday, 10:30 AM – 11:45 AM | Sun Ballroom C *Registered Full-Access attendees only*



The renewable energy market is experiencing unprecedented growth globally, particularly in US where robust state-level procurement targets, national targets and technological advancements have inaugurated the era of offshore wind. This push for clean energy has spotlighted demand for improved system performance, the development of sustainable and circular cable materials, new installation methods, long-term protection systems, and efficient system design are all part of enabling the energy transition. With the great growth potential in the market, challenges still exist in development of standards, regulatory challenges, and establishment of domestic cable production for all renewable markets.

This Panel Session will focus on current cable transmission system developments which are facilitating the transition to green energy. The Panelists will provide an overview of the current market, various projects, an update on the progress of standards, and key challenges in offshore wind farm applications. It will also cover the cable systems involved in bringing this energy to communities.

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Monday, 12:00 PM – 1:45 PM | Exhibit Ball B *Registered Full-Access attendees only (Seats are Limited)*

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GREETINGS/ANNOUNCEMENTS



David B. Kiddoo
CEO/Director
IWCS, Inc.



Ben Waite
Vice Chair of the Board
Fiber Optic Center



Dr. Bianca Hydutsky
2023 Committee Chair
The Chemours Company

2022 Awards & Recognition

Jack Spergel Memorial Award for Outstanding 2022 Technical Paper

Development of Best Practices and Guidelines for the Use of Expanded Beam Connectors in Data Center Applications

Dr. Tatiana Berdinskikh, Senko Advanced Components, USA

Kitts-Kingsley Award for Best 2022 Presentation

HFFR Cable Compounds: Influence of Flame-Retardant Filler and Coupling Agent on EVA/LLDPE Blend Systems

Dr. Michael Heinz, Corning Optical Communications, Germany

Award for Outstanding 2022 Poster Paper

"Development of Anti-Hacking Optical Cable"

Yongchan Park, GAON Cable, Republic of Korea

Honoring Retiring IWCS Board of Directors & Committee Members



Larry Bleich
CommScope, Inc.



Robert Canny
TE Wire & Cable



Steve Galan
UL Solutions



Mike Patel
Teknor Apex Company

KEYNOTE PRESENTATION



Scott Klososky
Founding Partner
Future Point of View, LLC.



As a founding partner of digital strategy firm, Future Point of View (FPOV), Scott lives on the leading edge of technology and innovative thinking. Scott speaks to large audiences worldwide about the intersection of humanity and the Digital Transformation. Through FPOV, Scott provides advisory work for clients including Fortune100, SMB's and government entities. This work has driven him to develop unique concepts such as the HUMALOGY® Scale for measuring the amount of human or machine involved in a system or process, and the Rivers of Information® process for building learning eco-systems. He also pioneered a framework for looking accurately into the future of an industry sector in order to set organizational strategy: The High Beam process.

Scott's presentation titled, "Disruptive Opportunities: Building the Ambient Intelligence Backbone" will offer thought-provoking insights on technological advancements that are fundamental to our social and professional lives. You don't want to miss this provocative session!

The digital transformation is not even halfway through its level of impact on humanity. There are many innovations and combinations of digital inventions still to come over the next twenty years. Underneath the new layers of ambient intelligence and computing power will be infrastructure that will need to support vastly different computing needs than today. The more accurate our High Beam vision, the better investments and strategic moves can be made.

PROFESSIONAL DEVELOPMENT COURSES

Sunday, 8:00 AM – 5:00 PM *Registered course attendees only.*

EX101: The Art and Science of Extrusion Machinery for Wire and Cable

Room: Sun 1

Instructors: **Dr. Stéphan Puissant**, *Design of Extruders*; Samp srl, Italy; *Assistant Professor in Polymer Processing*, InSIC, France; **Dr. Bo Li**, *Product and Application Development Researcher*, LyondellBasell, USA

The complete extrusion process is complex and involves a lot of machines having each a different function. The heart of the process being extrusion, we focus in this course on the extrusion group, i.e. extruder and cross head (distributor and tooling).

The single screw extruder seems to be a very simple machine. However, the extrusion process is complex as it is governed by interacting laws from different mechanical engineering fields i.e., thermodynamics, flow mechanics, properties of solid and molten polymers etc. Therefore, in a first step, the physical characteristics (viscosity, conductivity, melting) of polymers used in extrusion are presented. These properties will be the keys to understand the functioning of the thermoplastics extrusion process.

The material basis being covered, the focus will shift on the functioning of the single screw extruder. There the 3 functional zones of the extruder are introduced. For each zone, we will see its functioning in relation to material properties. This mechanism having been described, we will obtain some hints of the optimal screw designs (for some broader plastic families!), so as solutions which may be used to solve problematic issues.

After being plastified (molten), the polymer is given its final shape by some extrusion head. In this part, the basics of distributor design according to the materials are presented. After discussing the effects of distributor geometries, we will also compare different tool designs. For each of the different items (extruder, X-head, even cooling) covered in the course, we will try to give some practical hints in addition to a more theoretical approach.

CU101: Fundamentals of Copper Conductors & Metallic Cable Design & Applications

Room: Sun 2

Instructors: **Trent Hayes**, *Engineering Director* and **Larry Bleich**, *Engineering Director*; CommScope, Inc, USA

An introduction to the design and application of copper conductor communications cables. Students will understand how coaxial, twisted pair and twin axial cables are designed and how they operate upon completing the class. The instructors will provide background material on the history of copper cabling followed by sections on applications, design and construction of cables. Current standards and design examples are also reviewed by the instructors. Materials that are typically used in copper conductor communication cables will be incorporated at a fairly high level into the design exercises.

F0101: Fundamentals of Optical Fibers & FO Cable Design & Application

Room: Sun 4

Instructor: **Corey Keisler**, Senior Development Engineer, Corning Optical Communications, USA

This course will explore several aspects of optical fiber and cable design technology with particular focus on products for communications. It will discuss application considerations to select a product appropriate for a given installation environment and the basic considerations necessary for successful design of optical fiber cables.

The first part of this course will outline the characteristics and fundamental operating principles of optical fibers and the key differences between Single-Mode and Multimode optical fibers. Included will be critical fiber parameters and their impact on system performance. Specific topics will include the Advantages of Optical Fiber, Optical Fiber Manufacturing, Total Internal Reflection, Attenuation, Dispersion, Polarization Mode Dispersion (PMD), Cutoff Wavelength and other optical parameters critical to optical communications.

The second part of this course will explore the functional requirements of optical fiber cables and some of the fundamental design equations which can be used to ensure a cable will meet a given installation or operational requirement. The course will also discuss selection of a product appropriate for a given installation environment. Structural differences between cables for indoor, outdoor, and specialty applications will be explored including stranded loose tube cables, central and stranded tube ribbon cables, tight buffered cables and optical power ground wire cables.

MA211: Basics of Fluoropolymers and Their Use in Various Cable Applications

Room: Sun 5

Instructors: **Dr. Bianca Hydutsky**, *Senior Technology Manager*; **Fred Johnston**, *Senior Scientist*, and **Robert Young**, *Technical Fellow*; The Chemours Company, USA

In this course, we will review the selection and implementation of fluoropolymers utilized in various wire and cable constructions. The unique high temperature and desirable electrical properties of these materials make them well suited for a variety of high-performance constructions especially in data transfer where higher operating frequencies and greater bandwidth is of great interest. The different types of fluoropolymers will be highlighted providing a comparison of properties to assist in the selection of the material(s) most suited for the desired end-use application. A general overview of the processing of fluoropolymers will be also reviewed with an emphasis on understanding the extrusion conditions and configurations best suited for the material and construction of interest.

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MA101: Selection & Use of Materials in Wire & Cable

Room: Sun 5

Instructors: Dr. Paul Brigandi, *Application Development Leader*; and Yixuan Song, *Associate TS&D Scientist*; Dow, USA

In this course, the selection and implementation of polymer materials used in the construction of wires and cables will be reviewed. The course will focus on polymer materials utilized in telecommunication cable applications with focus on twisted pair, coaxial, and fiber optic cables. An overview of the materials science essential to the polymer properties and additives employed in cable compounds will be covered to level-set all attendees. Further, the fundamental characteristics (advantages and disadvantages) of materials will be presented which can be then considered in selecting a material for use in a finished cable construction, with specific sections covering jackets, insulations and fiber optic materials. In addition, the effect of additives on material performance will also be discussed, particularly those that impart ultraviolet resistant and flame retardant properties on the materials.

CU202: Copper Cabling Technology—Advanced Transmission Line Theory and Measurements

Room: Sun 2

Instructors: Alistair Duffy, *Faculty of Technology*, De Montfort University, United Kingdom; Kenneth Cornelison, *Wire & Cable Technology Resources*

This course reviews the fundamental transmission line theory inherent in all cables, relating the electrical property fundamentals to the transmission in high performance cables. Basic building blocks

of electrically long transmission lines are described, and how they relate to modern cable design. The course also covers the testing technology for high frequency cables. Measurement procedures, principles and techniques are covered, highlighting areas important for the latest cable types. Operation of test equipment such as vector network analyzers is reviewed, and the different methods of operation for laboratory and field test equipment. The course will briefly touch on some of the trends in cable applications and design that are influencing measurement technology and techniques. The course ranges from fundamental theory to practical application.

FO212: Advances in Optical Fibers and their Applications

Room: Sun 4

Instructor: Dr. Scott Bickham, *Development Fellow*, Corning Optical Communications, USA

Low-loss optical fibers were first fabricated over fifty years ago, and many types of fibers have been developed in conjunction with transceiver technology to enable deliver an ever-increasing amount of bandwidth over longer distances. This course will summarize some of the key developments in optical fiber technology that have enabled high-capacity data transmission in applications ranging from data centers to fiber-to-the-X to undersea communication systems. After presenting a brief refresher on the basic properties of optical waveguides, the course will discuss some of the key attributes of single-mode fibers, including attenuation mechanisms and the tradeoff between cutoff wavelength, bend loss and mode field diameter. The second section of the course will focus on multimode fibers and how the designs have evolved to deliver high modal bandwidth in conjunction with low macrobend loss to enable significant reductions in the sizes of the cables, hardware and equipment that are deployed in data centers. The course will conclude with an overview of the types of fibers that are being considered for co-packaged optics and other applications which will require high bandwidth density.

Please be sure to register for the specific course(s) you wish to attend. Advanced online registration is recommended but you may also inquire about available seats when you arrive for on-site registration/badge pick-up. Professional Development Courses commence on Sunday morning with four concurrent courses in the morning, a boxed lunch for students and instructors, and three additional courses in the afternoon. You may choose to participate in one morning course and one afternoon course.

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Eastern USA	Sunday, September 17				Monday, September 18	
7:00 AM					Speakers' breakfast and rehearsal 7:00 – 8:00 AM	
8:00 AM	8:00 AM–12:00 PM	8:00 AM–12:00 PM	8:00 AM–12:00 PM	8:00 AM–12:00 PM	Session 1	
8:25 AM	Professional Development Course	Professional Development Course	Professional Development Course	Professional Development Course	Executive Session	
8:50 AM					Sun Ballroom C/D	
9:15 AM	Basics of Fluoropolymers and Their Use in Various Cable Applications	The Art & Science of Extrusion Machinery for Wire and Cable	Fundamentals of Copper Conductors & Metallic Cable Design and Applications	Fundamentals of Optical Fibers and FO Cable Design and Application	Coffee & Networking 9:45 – 10:10 AM	
9:40 AM					<i>Location: Sun Lobby C</i>	
10:05 AM					<i>Executive Session continued</i>	
10:30 AM						
10:55 AM	MA211 Room Sun 5	EX101 Room Sun 1	CU101 Room Sun 2	F0101 Room Sun 4		
11:20 AM					Plenary Luncheon	
11:45 AM	Lunch for Professional Development Course Attendees				<i>with awards and Keynote presentation</i>	
12:10 PM	12:00 PM – 1:00 PM				"Disruptive Opportunities: Building the Ambient Intelligence Backbone"	
12:35 PM	Miami Room				Scott Klososky, <i>Founding Partner</i> , Future Point of View, LLC.	
1:00 PM	1:00 PM–5:00 PM	1:00 PM–5:00 PM	1:00 PM–5:00 PM	12:00 – 1:45 PM		
1:25 PM	Professional Development Course	Professional Development Course	Professional Development Course	Exhibit Hall B		
1:50 PM						
2:15 PM	Selection & Use of Materials in Wire & Cable	Copper Cabling Technology - Advanced Transmission Line Theory and Measurements	Advances in Optical Fibers and Their Applications	Supplier Exhibition™		
2:40 PM				2:00 – 6:00 PM		
3:05 PM				Exhibit Hall A		
3:30 PM				Refreshments 5:00 – 6:00 PM		
3:55 PM	MA101 Room Sun 5	CU202 Room Sun 2	F0212 Room Sun 4	Supplier Spotlight Session		
4:20 PM					2:00 – 6:00 PM	
4:45 PM					Exhibit Hall A	
5:10 PM						
5:35 PM						
6:00 PM+					"Havana Nights" Networking Reception	
					6:00 PM – 7:30 PM	
					Coquina Lawn	

Tuesday, September 19			Wednesday, September 20			Eastern USA
Speakers' breakfast and rehearsal 7:00 – 8:00 AM			Speakers' breakfast and rehearsal 7:00 – 8:00 AM			7:00 AM
Session 2 Network Reliability and Measurements Room Sun 1-3	Session 3 Design, Testing and Applications for Copper Ethernet, PoE, and Energy Cables - Part 1 Room Sun 4-5	Session 4 High Density Loose Tube Room Sun C	Session 10 Room Sun 1-3	Session 11 Room Sun 4-5	Session 12 Room Sun C	8:00 AM
			Coffee & Networking 9:15 – 9:40 AM <i>Location: Sun Lobby C</i>			
Coffee & Networking 10:05 – 10:30 AM <i>Location: Sun Lobby C</i>			Design, Testing & Applications for Copper Ethernet, PoE, and Energy Cables - Part 2	Cable Materials & Properties <i>Sponsored by Dow</i>	Cable Modeling and Design Panel Discussion Renewable/Offshore Energy <i>Sponsored by Prysmian PowerLink</i> Room Sun C	8:50 AM
Session 5 Specialty Apps Room Sun D	Session 6 Fiber Manufacturing Room Sun 1-3	Panel Discussion Environmental Sustainability and Recycling for the Cable Industry <i>Sponsored by Chemours</i> Room Sun C				9:15 AM
Lunch on Your Own 11:45 AM – 1:00 PM			Lunch on Your Own 11:45 AM – 1:00 PM			9:40 AM
						10:05 AM
Supplier Exhibition™ 10:00 AM – 6:00 PM			Session 13 Room Sun 1-3			10:30 AM
						10:55 AM
Session 7 Connectivity Room Sun 4-5	Session 8 Multi-Core & Specialty Fiber Room Sun D	Session 9 Codes and Standards Room Sun C	Session 14 Room Sun 4-5			11:20 AM
Coffee & Networking 2:40 – 3:05 PM <i>Location: Sun Lobby C</i>			Session 15 Room Sun C			11:45 AM
Session 7 continued	Session 8 continued	Panel Discussion Fault-Managed Power: A Safe and Disruptive Innovation for Powering the Future <i>Sponsored by UL Solutions</i> Room Sun C	Coffee, Networking & Prize Drawing* 2:15 – 2:40 PM <i>Location: Sun Lobby C *Must be present to win.</i>			12:10 PM
Poster Paper Session 4:00 PM – 6:00 PM Exhibit Hall A Refreshments: 5:00 – 6:00 PM Prize Drawing: 5:30 PM* *Must be present to win			Optical Fiber Coating Materials			12:35 PM
						Specialty Installation
						1:25 PM
						1:50 PM
						2:15 PM
						2:40 PM
						3:05 PM
						3:30 PM
						3:55 PM
						4:20 PM
						4:45 PM
						5:10 PM
						5:35 PM
						6:00 PM+

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Cable & Connectivity Industry Forum™

by IWCS

Save the Dates for IWCS 2024

Monday, October 14– Thursday, October 17, 2024
 Providence, Rhode Island, USA



SUPPLIER EXHIBITION™ & BRAND EXPOSURE OPPORTUNITIES

Gain exposure for your business and demonstrate industry leadership as an IWCS sponsor, reserve a booth to exhibit your products and services during the Supplier Exhibition™, and take advantage of additional unique opportunities to promote your brand.

Review 2024 IWCS Sponsorship and Supplier Exhibition™ options at:

iwcs.org/prospectus



SUBMIT A TECHNICAL RESEARCH PAPER

If your work is of interest to the cable and connectivity industry, you should submit a Technical Paper Abstract. **Refer your colleagues!**

- Gain international recognition
- Get your work published
- Help advance the industry

View suggested topics and submission requirements at:

iwcs.org/present



SIGN UP FOR EVENT ANNOUNCEMENTS

Plan ahead to attend next year's IWCS Cable & Connectivity Industry Forum in Providence, Rhode Island, USA. Join the IWCS e-newsletter to receive event updates and travel recommendations. Event registration details will be released early next year.

Join the IWCS e-newsletter at:

iwcs.org/newsletter





Plan Your Technical Paper for the 2024 IWCS Forum

October 14 – 17, 2024 | Providence, Rhode Island, USA

ABSTRACTS WILL BE COLLECTED SOON!

Visit iwcs.org/present for updates.

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Reasons to Submit a Technical Paper



International Exposure

Gain exposure for yourself and your company. Accepted papers will be widely disseminated with broad exposure opportunities for the topic, author, and company to thousands of stakeholders internationally.



Published Research Archive

Accepted papers will be published in the Forum proceedings and in the IWCS online archive. Several will be republished by IWCS in industry trade journals and papers may be republished by the author when authorized with IWCS permission.



Educate the Industry

Help advance the worldwide cable and connectivity industry by sharing your research. In addition to presenting at the Forum, authors may participate in the IWCS Webinar Series, a live presentation of your paper with a global audience.

Suggested Topics (additional topics are also welcome)

COPPER

- Copper Conductors
- Copper Cable
 - Performance Modeling, Measurements & Testing
 - Accessories
 - Power
 - Medium / High Voltage
 - Fault Managed Power Delivery / Digital Electricity / Class 4
 - Data Communications / PoE
 - EMC / Single Pair Ethernet
 - Sensor / Signal / Transmission Cable
 - Industrial Automation / Robotics
 - Long Haul / Submarine Networks
 - Renewable / Off-Shore Energy
 - Oil / Gas / Drilling / Mining
 - Advance Healthcare
 - Automotive / Aerospace
 - Electric / Autonomous Vehicles

OPTICAL FIBER

- Optical Fiber Manufacturing
- Optical Fiber Applications
- Ultra-Low Loss Optical Fibers
- Multimode Fiber
- Optical Fiber Measurement, Reliability and Maintenance
- Splicing Technologies
- Next-Generation Special Fibers

OPTICAL FIBER CABLE

- Optical Fiber Cable Manufacturing
- Cable Measurement, Reliability and Maintenance
- Cable Designs
- Flexible Ribbon
- High Density Cable
- Multi-Core Cable
- Micro-Cables
- FTTx/FTTH and Installations
- Long Haul / Submarine Networks

CODES & STANDARDS

- Safety
- Performance
- Environmental / Sustainability / Eco-Labels

MATERIALS

- Compound Manufacturing
- Processing / Extrusion
- Cable Component Materials
 - Fluoropolymers
 - PVC
 - Low Smoke / Flame Retardant Halogen Free
 - Olefins
 - Thermoplastic Elastomers
 - Thermoplastic Urethanes
- Connectivity Materials
- Raw Materials / Ingredients

CONNECTIVITY / ASSEMBLIES

- Interconnect / Connectors
- Optical Connectivity
- Wire Harnesses
- Assemblies
- Harsh Environments
- Ferrule-less Alternative Optical Connectivity Methods
- High Density Interconnect Developments
- Field Installable / Fusion Splices / Terminations
- Field Identification / Repair / Reconditioning

INSTALLATION & TOOLS

- Microduct
- Air Blown
- Splicing Technologies
- Tooling & Testing

SPECIALTY APPLICATIONS

- 5G Cabling / Network Technology
- Broadband Infrastructure / Rural Communities
- Enterprise & Edge Data Centers
- SMART Society Concepts (Grids / Cities / Buildings)
- Sensor / Signal / Transmission Cable
- Industrial Automation / Robotics
- Long Haul / Submarine Networks
- Renewable / Off-Shore Energy
- Fault Managed Power Delivery / Digital Electricity / Class 4
- Oil / Gas / Drilling / Mining
- Advance Healthcare
- Automotive / Aerospace
- Electric / Autonomous Vehicles
- EMC / Single Pair Ethernet
- Wireless Signal Transmission

Further 2024 IWCS event information, abstract submission requirements, and selection criteria is available at: iwcs.org/present.

SESSION 1: Executive Session

Chairperson: David B. Kiddoo, *IWCS, USA*

Room: Sun C/D

Monday, September 18, 8:00 AM – 11:40 AM

The Executive Session is designed for the general management of the cable & connectivity industry supply chain companies. This year's Executive Session will feature important industry topics such as market trends, economic outlook, industry opportunities, and more.

- 1-1 (8:00) **Metallic Wire and Cable: Recession Risk vs. Green Energy Transition;** Chenfei Wang, *CRU, China*
- 1-2 (8:30) **Optical Cable: Demand Growth Pared Back as Challenges Mount;** Chenfei Wang, *CRU, China*
- 1-3 (9:00) **Digital Electricity: Leading the Transition to an Energy Efficient World;** Stephen Eaves, *VoltServer, USA;* and Luis Suau, *Sinclair Digital Services, USA*

Break (9:45 AM – 10:10 AM)

- 1-4 (10:10) **Global Economic Outlook;** Robert Fry, *Robert Fry Economics, USA*
- 1-5 (11:00) **Elements of an Industry Business Plan to be Successful in the World of AI and Electrification;** Scott Klososky, *Future Point of View, LLC., USA*

PLENARY SESSION LUNCHEON: Keynote & Awards

Room: Exhibit Hall B

Monday, September 18, 12:00 PM – 1:45 PM

For information about the Plenary, refer to pages 16–17.

SUPPLIER SPOTLIGHT SESSION

Chairperson: Jon Mello, *Teknor Apex, USA*

Room: Exhibit Hall A - Supplier Spotlight Stage

Monday, September 18, 2:15 PM – 6:00 PM

- (2:15) **Durable and Sustainable Aegis® Nylons for Wire Jacket Applications,** AdvanSix
- (2:30) **Robust CPE Alloy Jacketing for the Evolving Cable Industry,** Aurora Plastics, LLC
- (2:45) **Challenges and Options in Cable Shielding,** Wardwell Braiding
- (3:00) **Elastollan® N – A 50% Biobased TPU for Cable Jacketing and Overmolds,** BASF
- (3:15) **Supporting Quality Management with Cablebuilder,** Cimteq by UL Solutions
- (3:30) **Specialty Gels for Wire and Cable and Beyond,** Info-Gel
- (3:45) **Advanced LED Systems for the Curing of Fiber Coatings,** Excelitas Technologies Corp.
- (4:00) **From VW1 through FT4 – Learn How Halguard® LS HFFR Compounds Can Meet The Strictest Regulations,** Teknor Apex
- (4:15) **Fluoropolymer Solutions for the Wire and Cable Industry,** Jinhua Yonghe Fluorochemical Co., LTD

Supplier Spotlight Session continued

- (4:30) **Movacolor Products for Dosing and Blending,** KN Manufacturing Solutions
- (4:45) **Sustainable Products for Wire & Cable,** M. Holland Company
- (5:00) **Orion Wire and Cable Black Portfolio for Medium and High Voltage Cables,** Orion Carbon
- (5:15) **The Latest Cable Packaging Innovations,** REELEX Packaging Solutions, Inc.
- (5:30) **New Solutions for THV Alternatives,** AGC Chemicals

SESSION 2: NETWORK RELIABILITY & MEASUREMENTS

Chairperson: Ben Waite, *Fiber Optic Center, Inc., USA*

Room: Sun 1-3

Tuesday, September 19, 8:00 AM – 9:40 AM

- 2-1 (8:00) **Power Storage Control Method for Multiple Remote-Operated Optical Fiber Switching Nodes;** Mr. Akihiro Kuroda, *NTT Access Network Service Systems Laboratories, NTT Corporation, Japan*
- 2-2 (8:25) **A Fiber Inspection Microscope Integrated with Cleaning Function;** Dr. Paul Huang, *Panduit, USA*
- 2-3 (8:50) **Reliable Prediction of Data Center Interconnect Network Flaps via Distributed Acoustic Sensing (DAS) and Supervised Machine Learning;** Dr. Badri Gomatam, *Sterlite Technologies Limited, India*
- 2-4 (9:15) **Artifacts for Measuring Bias and Repeatability of Fiber Inspection Scopes;** Doug Wilson, *FiberQA, USA*

SESSION 3: DESIGN, TESTING & APPLICATIONS FOR COPPER ETHERNET, POE AND ENERGY CABLES - PART 1

Chairperson: Trent Hayes, *CommScope, Inc., USA*

Room: Sun 4-5

Tuesday, September 19, 8:00 AM – 9:40 AM

- 3-1 (8:00) **Extracting and Discriminating Spontaneously Recovering Faults, Case Study on Pressurized Cable;** Mr. Kaoru Kawasaki, *Nippon Telegraph and Telephone East Corporation, Japan*
- 3-2 (8:25) **Impact of Thermal Aging on Safety Performance of Power-Over-Ethernet Cables;** Dr. Bo Xu, *Product Development Center, Superior Essex Communications, USA*
- 3-3 (8:50) **Channel Performance Degradation From Installation Stresses;** Mr. Brian Marchant, *Leviton, USA*
- 3-4 (9:15) **Topography Scanner for Quality Control of Power Cable Manufacturing;** Mr. Jussi Hanhiova, *Maillefer Extrusion Oy, Finland*

SESSION 4 HIGH DENSITY LOOSE TUBE

Chairperson: David B. Kiddoo, IWCS, Inc.

Room: Sun C

Tuesday, September 19, 8:25 AM – 10:05 AM

- 4-2 (8:25) **High-Density Optical Cable with Ultra-Low-Loss, Large Effective Area ITU-T G.654.E Optical Fiber**; Mr. Jairo Stoco, *Corning, United Kingdom*
- 4-3 (8:50) **Evaluation of 165µm Reduced Coating Diameter Fibers for High Density Cable Applications**; Yunfeng Gu, *Corning Incorporated, USA*
- 4-4 (9:15) **High-Density Micro Cable Family with Next Generation 190 Micron Fibers**; Mr. Sebastian Olszewski, *Corning Optical Communications Polska Sp. z o.o., Poland*
- 4-5 (9:40) **Development of a High Fiber Density 432-Fiber Microduct Cable**; Mr. Ray Lovie, *Prysmian Cables and Systems USA, LLC, USA*

■ **Coffee & Networking Break (10:05 AM – 10:30 AM)**

SESSION 5: SPECIALTY APPLICATIONS

Chairperson: Mike Gimblet, *Corning Optical Communications LLC, USA*

Room: Sun D

Tuesday, September 19, 10:30 AM – 11:20 AM

- 5-1 (10:30) **Sea Trail Results of OCC-SC630**; Mr. Hirose Tadafumi, *OCC Corporation, Japan*
- 5-2 (10:55) **Development and Application of an Air-Blown Optical Cable with Bidirectional Construction**; Mr. Yuxuan Zhou, *Fiberhome Communication Technology Co., LTD, China*
- 5-3 (11:20) **35 Years Of Fiberoptic Coastal Installations In Norway**; Dr. Svend Hopland, *Hopland MarinInstal, Norway*

SESSION 6: FIBER MANUFACTURING

Chairperson: Yoshihiro Arashitani, *Furukawa Electric Co., LTD., Japan*

Room: Sun 1-3

Tuesday, September 19, 10:30 AM – 11:20 AM

- 6-1 (10:30) **Design Process of a 192-Fibre Cable with Fibres Coated to 180µm Diameter**; Mr. Onno Bresser, *TKH Group NV, China*
- 6-2 (10:55) **A Novel Modelling Approach for Sintering of Cylindrical Silica Soot Preform**; Mr. Debangshu Debnath, *Sterlite Technologies Limited, India*

INDUSTRY SUSTAINABILITY PANEL DISCUSSION

Sponsored by: *Chemours*

Room: Sun C

Tuesday, September 19, 10:30 AM – 11:45 AM

“Environmental Sustainability and Recycling for the Cable & Connectivity Industry”

Refer to information on page 14.

SESSION 7: CONNECTIVITY

Chairperson: Mike Gurreri, *CommScope, Inc., USA*

Room: Sun 4-5

Tuesday, September 19, 1:00 PM – 3:55 PM

- 7-1 (1:00) **Liquid Immersion Multi-Fiber Connector for Data Center Cooling System**; Prof. Mitsuru Kihara, *Osaka Electro-Communication University, Japan*
- 7-2 (1:25) **Connection Characteristics of Coupled Multicore Fiber Connector**; Mr. Yuki Fujimaki, *Chiba Institute of Technology, Japan*
- 7-3 (1:50) **Optical Transceivers and Structured Cabling with Expanded Beam Connectors as an Alternative to Active Optical Cables**; Dr. Earl Parsons, *CommScope, USA*
- 7-4 (2:15) **A VSFF, Multi-Row, Multi-Fiber Connector with Multi-Vendor Interoperability**; Mike Hughes, *US Conec Ltd, USA*
- **Coffee & Networking Break (2:40 PM – 3:05 PM)**
- 7-5 (3:05) **A Novel, Low-Loss, Multi-Fiber Connector with Increased Usable Fiber Density**; Dr. Scott Bickham, *Corning Optical Communications, USA*
- 7-6 (3:30) **Sustainable Network Design: Plastic Reduction with Ultra High-Density Cabling with Thinner Coating and VSFF Connector in Data Centers**; Mr. Takeshi Kasai, *Senko Advanced Components, USA*

SESSION 8: MULTI-CORE & SPECIALTY FIBER

Chairperson: Eric Whitham, *OFS, a Furukawa Company, USA*

Room: Sun D

Tuesday, September 19, 1:00 PM – 4:20 PM

- 8-1 (1:00) **100G/Lane Enabled Multimode Fiber: A High-Speed Solution for Short-Reach VCSEL Transmission**; Dr. Hao Dong, *Corning Optical Communications, USA*
- 8-2 (1:25) **A Low Crosstalk Weakly Coupled 7-Core Single Mode Fiber**; Mr. Imtiaz Majid, *Yangtze Optical Fibre and Cable Joint Stock Limited Company (YOFC), China*
- 8-3 (1:50) **Multicore Fiber for Space-Constrained, High Bandwidth Density Applications**; Dan Neugroschl, *Chiral Photonics, USA*
- 8-4 (2:15) **Research of Crosstalk Characteristics Based On Weakly Coupled Seven-Core Fiber**; Imtiaz Majid, *Yangtze Optical Fibre and Cable Joint Stock Limited Company (YOFC), China*
- **Coffee & Networking Break (2:40 PM – 3:05 PM)**
- 8-5 (3:05) **Low-Loss All-Fiber Mode Multiplexer for Weakly-Coupled Few-Mode Fiber**; Imtiaz Majid, *Yangtze Optical Fibre and Cable Joint Stock Limited Company (YOFC), China*
- 8-6 (3:30) **Crosstalk Characteristics of 200mm Coating 4-Core Fibers in 288-Fiber/864-Fiber Freeform Ribbon Cables**; Takuji Nagashima, *Sumitomo Electric Industries, Ltd., Japan*
- 8-7 (3:55) **Low Attenuation Orbital Angular Momentum Fiber**; Mr. Imtiaz Majid, *Yangtze Optical Fibre and Cable Joint Stock Limited Company (YOFC), China*

SESSION 9: CODES & STANDARDS

Chairperson: **Dmitriy Bodik**, *UL Solutions, USA*

Room: Sun C

Tuesday, September 19, 1:00 PM – 3:30 PM

- 9-1 (1:00) **Clarifying the Changes – Update on Revisions To UL'S Certification Documents**; Ms. Susan Stene, *UL Solutions, USA*
- 9-2 (1:25) **Emissivity - A Relevant Parameter for Burn Testing According to EN 50399**; Dr. Waldemar Stoecklein, *Corning Optical Communications, Germany*
- 9-3 (1:50) **Single Pair – Next Steps**; Mr. Dave Hess, *Cord Data, USA*
- 9-4 (2:15) **Predictive Modeling of Large-Scale Flame Tests on Cables Using Cone Calorimeter**; Dr. Jiyuan Kang, *UL Solutions, USA*

■ **Coffee & Networking Break (2:40 PM – 3:05 PM)**

- 9-5 (3:05) **Cabling for Fault-Managed Power Systems (What Is Class 4?)**; Ronald Tellas, *Belden, USA*

EMERGING TECHNOLOGY PANEL DISCUSSION

Sponsored by: **UL Solutions**

Room: Sun C

Tuesday, September 19, 3:05 PM – 4:25 PM

“Fault-Managed Power: A Safe and Disruptive Innovation for Powering the Future”

Refer to information on page 14.

POSTER SESSION

Chairperson: **Alistair Duffy**, *Faculty of Computing, De Montfort University, UK*

Room: Exhibit Hall A

Tuesday, September 19, 4:00 PM – 6:00 PM

- **Development of 22.9Kv Submarine Horizontal Directional Drilling (HDD) Power Cable**; Mr. Sangmin Oh, *Gaon Cable Co. Ltd., Republic of Korea*
- **Experimental Study on Measuring Method of Residual Torsion of Fiber Ribbon**; Mr. Zhou Yuxuan, *Nanjing Wasin Fujikura Optical Communication LTD, China*
- **UV Protection and Lightfastness of Outdoor Cables**; Ms. Brita Kunze, *Delta Technic*,
- **A Method for Estimating the Combustion Performance (Smoke Density) of Optical Cables Based on Material Thermal Analysis Techniques**; Mr. Qi Lin, *Yangtze Optical Fibre and Cable Joint Stock Company | State Key Laboratory of Optical Fiber and Cable Manufacture Technology, China*
- **Research on Shrinkage Performance of Central Core Tube Optical Cable**; Mr. Jianbin Duan, *State Key Laboratory of Optical Fiber and Cable Manufacture Technology | Yangtze Optical Fibre and Cable Joint Stock Limited Company, China*
- **Temperature Performance Study of Loose Tube Materials**; Mr. Qi Lin, *Yangtze Optical Fibre and Cable Joint Stock Company | State Key Laboratory of Optical Fiber and Cable Manufacture Technology, China*

Poster Session continued

- **Optical Cable Impact on Environmental Performance of Single-Fiber Patchcord**; Mr. Jianbin Duan, *State Key Laboratory of Optical Fiber and Cable Manufacture Technology | Yangtze Optical Fibre and Cable Joint Stock Limited Company, China*
- **Print Length Verification System**; Mr. Patrick Jones, *Taymer International Inc., Canada*

SESSION 10: DESIGN, TESTING & APPLICATIONS FOR COPPER ETHERNET, POE AND ENERGY CABLES - PART 2

Chairperson: **Ed Fenton**, *Daikin America, USA*

Room: Sun 1-3

Wednesday, September 20, 8:00 AM – 11:45 AM

- 10-1 (8:00) **Extended 10Gbps Data Transmission Over Cat 6A: Facts vs Myths**; Solomon Girma, *Superior Essex Communications, USA*
- 10-2 (8:25) **Intra-Pair Skew: About Wave Propagation in Screened Single Pair**; Dr. Boris Dardel, *AESA SA, Switzerland*
- 10-3 (8:50) **Coupling Attenuation and Burst Test on Balanced Cables and Cabling Systems**; Dave Hess, *Cord Data, Germany*

■ **Coffee & Networking Break (9:15 AM – 9:40 AM)**

- 10-4 (9:40) **Designing of Single-Pair Ethernet Cable**; Dr. Juliusz Poltz, *OptEM Engineering Inc., Canada*
- 10-5 (10:05) **Environmental Resilience of Twisted Pair Ethernet Applications at Lengths Greater than 100 Meters**; Mr. Michael Dodds, *Leviton Manufacturing Co., Inc., USA*
- 10-6 (10:30) **Relation of Coupling Attenuation and Unbalance Attenuation**; Mr. Dave Hess, *CORD DATA, USA*
- 10-7 (10:55) **Measuring and Simulating TCTL in Unbalanced Cable**; Dr. Juliusz Poltz, *OptEM Engineering Inc., Canada*
- 10-8 (11:20) **Power Over Communication Cables for Extended Distance: Myths and Misconceptions**; Mr. Amir Sekhvat, *Superior Essex, USA*

SESSION 11: CABLE MATERIALS & PROPERTIES

Chairperson: **Thomas Schelling**, *J.M. Huber Corporation, USA*

Room: Sun 4-5

Sponsored by: **Dow**

Wednesday, September 20, 8:00 AM – 10:55 AM

- 11-1 (8:00) **New Advancement in Polyvinylidene Fluoride (PVDF) Materials**; Azaz Vahora, *Arkema Inc., USA*
- 11-2 (8:25) **Foamed PVDF Jacket for Power-Over-Ethernet Cables to Overcome Thermal Aging Challenges**; Dr. Bo Xu, *Product Development Center, Superior Essex Communications, USA*
- 11-3 (8:50) **Materials Considerations for Laser Printed Jacket Solutions**; Dr. Brian Risch, *Prysmian, USA*
- **Coffee & Networking Break (9:15 AM – 9:40 AM)**
- 11-4 (9:40) **Effects of Filler Surface Modification on Coupling Effects in Halogen Free Flame Retardant Cable Compounds**; Dr. Michael Heinz, *Corning Optical Communications, Germany*

Session 11 continued

- 11-5 (10:05) **Polyurethane Resin-based FRP Rods as Embedded Strength Members in Optical Fiber Cables;** Ms. Aparna Nath, *Sterlite Technologies Limited, India*
- 11-6 (10:30) **Tailored Color Packages for Optimizing the Processing and Performance of Crosslinking Polyolefins;** Dr. Eric Laird, *Chroma Color Corporation, USA*
- 11-7 (10:55) **Fluoropolymer Processing Aid Replacement in Cable Jacketing Compounds;** Dr. Karl Seven, *Dow, USA*
- 11-8 (11:20) **Research On Influencing Factors Of Smoke Density In Flame Retardant Optical Cable;** Ms. Elizabeth Pan, *Hengtong Optic-Electric Co., Ltd., China*

SESSION 12: CABLE MODELING & DESIGN

Chair: Ken Cornelison, *Wire & Cable Technology Resources, USA*
Room: Sun C

Wednesday, September 20, 8:00 AM – 10:30 AM

- 12-1 (8:00) **Exploration Study of Jacket Shrinkback Test Methods;** Massimo Carboni, *Belden, Canada*
- 12-2 (8:25) **An Analytical Formula of Microbending Sensitivity for Reduced Diameter Optical Fibers;** Mr. Takahiro Nomura, *Sumitomo Electric Industries, Ltd., Japan*
- 12-3 (8:50) **Indoor-Outdoor Air Blown Optical Cable;** Mr. Naoya Maehara, *Fujikura Ltd., Japan*
- **Coffee & Networking Break (9:15 AM – 9:40 AM)**
- 12-4 (9:40) **Central Tube Cable Design for Easy Access of Embedded Strength Members;** Mr. Sravan Kumar Peraka, *Sterlite Technologies Limited, India*
- 12-5 (10:05) **Hybrid Cables for 4G/5G Technology Networks;** Mr. Kleber Caliani, *Prysmian Systems S.A., Brazil*

INDUSTRY SUSTAINABILITY PANEL DISCUSSION

Sponsored by: *Prysmian PowerLink*

Room: Sun C

Wednesday, September 20, 10:30 AM – 11:45 AM

“Renewable/ Offshore Energy”

Refer to information on page 14.

SESSION 13: OPTICAL FIBER COATING MATERIALS

Chairperson: Eric Bulington, *UL Solutions, USA*

Room: Sun 1-3

Wednesday, September 20, 1:25 PM – 3:55 PM

- 13-2 (1:25) **Next Generation Optical Fiber Coatings with Excellent Accelerated Aging Performance, While Maintaining Robust Draw Processing Capability;** Dr. Xiaosong Wu, *Covestro LLC, USA*
- 13-3 (1:50) **Impact of Environmental Stresses and Lifetime Aging Simulation on Optical Fiber Coatings;** Dr. Brian Risch, *Prysmian, USA*
- **Coffee & Networking Break (2:15 PM – 2:40 PM) with Prize Drawing* (must be present to win)**
- 13-4 (2:40) **Prediction of Physical Properties of Optical Fiber Coating Resins Based on Chemical Kinetics;** Yudai Watanabe, *Sumitomo Electric Industries, Ltd, Japan*
- 13-5 (3:05) **Investigation on Application of Biomass Raw Materials to Optical Fiber Coating Agents;** Mr. Natsuki Hamada, *Japan Fine Coatings Co., Ltd., Japan*

Session 13 continued

- 13-6 (3:30) **UV-Curable High Temperature Resistant Dual Layer Coating System for Specialty Optical Fiber Applications;** Dr. Huimin Cao, *Covestro LLC, USA*

SESSION 14: SPECIALTY INSTALLATION

Chairperson: Mike Gurreri, *CommScope, Inc., USA*

Room: Sun 4-5

Wednesday, September 20, 1:00 PM – 4:20 PM

- 14-1 (1:00) **Installing a Cable in a Duct Solely by the Flow of Water, Faster than the Flow Itself!;** Dr. Willem Griffioen, *Plumettaz SA, Switzerland*
- 14-2 (1:25) **Cable Jetting Velocity Prediction Model;** Mr. Akshay Parmar, *Corning Technologies India Pvt. Ltd., India*
- 14-3 (1:50) **Pre-Connectorized Ultra-High-Density Cable for Easy Installation;** Mr. Fumiaki Sato, *Sumitomo Electric Industries, Ltd., Japan*
- **Coffee & Networking Break (2:15 PM – 2:40 PM) with Prize Drawing* (must be present to win)**
- 14-4 (2:40) **Fundamental Study of Planar Closure for Wiring on Road Surface;** Mr. Shun Kobayashi, *NTT Access Network Service Systems Laboratories, NTT Corporation, Japan*
- 14-5 (3:05) **Study of Easy Thin Optical Fiber Cabling Method;** Mr. Keitarou Yoshida, *Nippon Telegraph and Telephone East Corporation, Japan*
- 14-6 (3:30) **Study on Streamlining Cable Removal Process;** Keiji Fujihashi, *Nippon Telegraph and Telephone East Corporation, Japan*
- 14-7 (3:55) **Methodology to Maintain Low Breaking Load and High Mechanical Reliability in Optical Fiber Drop Cable for Fttx Network;** Ms. Darshana Bhatt, *Sterlite Technologies Limited, India,*

SESSION 15: HIGH DENSITY RIBBON

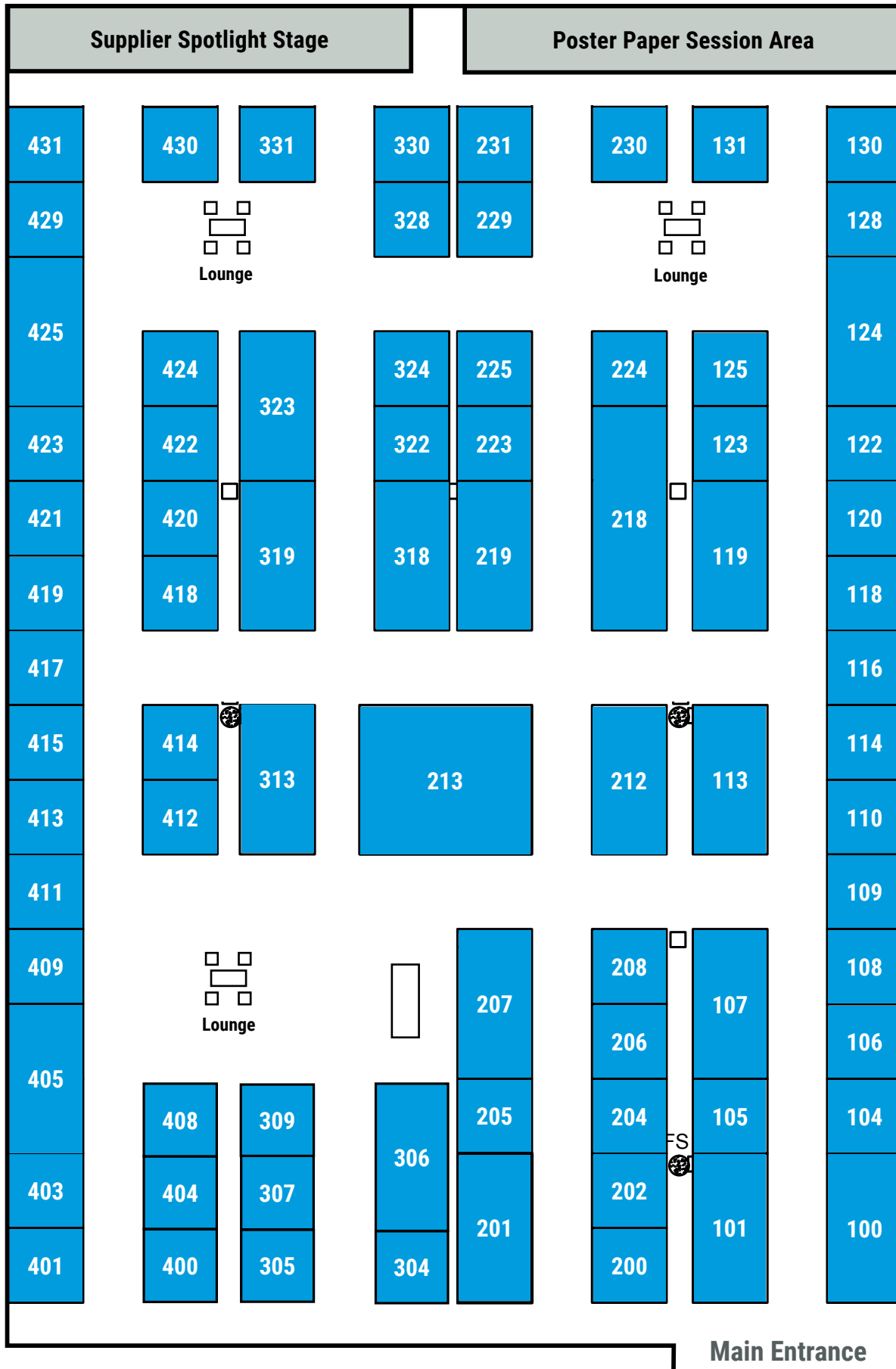
Chairperson: Bulent Kose, *Panduit Corp., USA*

Room: Sun C

Wednesday, September 20, 1:00 PM – 3:55 PM

- 15-1 (1:00) **Development of Low Loss Central Core Rollable Ribbon Cable;** Mr. Tomoaki Gonohe, *Furukawa Electric Co., Ltd., Japan*
- 15-2 (1:25) **High-Density Cables with 200-Micron Flexible Ribbons;** Mr. Edward Hudson, *Corning Optical Communications, LLC, USA,*
- 15-3 (1:50) **Single Jacket Armored Wrapping Tube Cable with Easy Fiber Access;** Mr. Yusuke Tsujimoto, *Fujikura Limited, Japan*
- **Coffee & Networking Break (2:15 PM – 2:40 PM) with Prize Drawing* (must be present to win)**
- 15-4 (2:40) **High Fiber Density 3456F Flexible Ribbon Indoor/ Outdoor Cable for Indoor Outdoor Data Center Applications;** Eric, Anderson, *Prysmian Group, USA*
- 15-5 (3:05) **144F High-Density Ribbon Cable Supporting/ Compatible to Legacy Network;** Mr. Kowarpreet Singh, *Sterlite Technologies Limited, India*
- 15-6 (3:30) **Optical Fiber Ribbon Cables with Full Color Spectrum;** Mr. Qi Lin, *Yangtze Optical Fibre and Cable Joint Stock Company | State Key Laboratory of Optical Fiber and Cable Manufacture Technology, China*

SUPPLIER EXHIBITION™ FLOOR PLAN



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107	Proton Products Inc
108	Orion
109	Fil-Tec, Inc.
110	IWCS Cable & Connectivity Industry Forum
113	Wire and Plastic Machinery Corp.
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116	AGC Chemicals Americas, Inc.
118	Melos GmbH
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120	SETIC s.a.s.
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Wire Harness & Cable Connector
 July/August 2023

Wire Harness & Cable Connector

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OVERVIEW

August 14, 2023
 Volume 26, Issue 8
INSIDE THIS ISSUE

Prismion Group Expanding Du Quoin Plant & Starting Next Construction Phase at Willamsonport Facility
 Leader in the energy and telecom cable industry, Prismion Group, broke ground on a \$556.8 million expansion project at its Du Quoin, IL, USA, plant...
 Prismion Group also recently hosted a beam signing ceremony to mark the next construction phase at its Willamsonport, PA, USA, plant to celebrate the company's \$522.5 million expansion project. Prismion's investment will create at least 27 new jobs and includes a 51,000 sq ft addition to the existing plant. www.prismiongroup.com

Registration Open for the 2023 IWCS Cable & Connectivity Forum
 Registration is now open for the 72nd annual IWCS Cable & Connectivity Industry Forum, September 17 to 20, 2023, in Orlando, FL, USA. This premier event features the traditional elements of the IWCS Forum including a Technical Symposium with previously unpublished Technical Papers, Executive Session, Plenary Luncheon with Keynote Speaker, Supplier Exhibition™ and Professional Development Courses as well as a "Havana Nights" welcome reception and expert panel discussions.

"The energetic networking and exchange of information displayed at last year's Forum was refreshing," shares IWCS Director/CEO, David Kiddoo. "We look forward to picking up where we left off!"

The event schedule, seen in the Preliminary Event Program of the IWCS website, kicks off with seven Professional Development Courses on Sunday, concurrent sessions and the Supplier Exhibition on Monday and Tuesday and technical sessions on Wednesday. www.iwcs.org/program

WIRE & CABLE STOCK INDEXES			
	Change since last issue	% Change	TD 2023
OVERVIEW 35	5706	+1.0	+10.5
OVERVIEW Electrical	4858	+1.6	+10.3
OVERVIEW Communications	982	-5.5	+6.1
OVERVIEW Steel	412	-1.7	+13.2

* All numbers are from prices listed on the market on August 9, 2023.

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Tel: 1-844-890-8949
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Website: AdvanSix.com

At AdvanSix, it all starts with essential chemistries that make innovative solutions possible. Our diverse portfolio of chemistries produces essential materials for our customers in a wide variety of end markets and applications that touch people's lives. Our integrated value chain of five U.S.-based manufacturing facilities plays a critical role in global supply chains and enables us to innovate and deliver essential products for our customers. AdvanSix strives to deliver best-in-class customer experiences and differentiated products in the industries of nylon solutions, chemical intermediates and plant nutrients. Our durable and differentiated Aegis® nylon for cable and wire applications is trusted by customers across the industry for its proven processability and performance. All grades are UL certified for use on wire and cables that power buildings, cars, machines, appliances and more. Our 100% recycled nylon content grades offer the same benefits with the opportunity to reduce your carbon footprint with no need for costly requalification. Aegis® nylon is just one of many solutions within our diversified portfolio of chemistries.



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ADVARIS is a leading supplier of special software solutions and consultancy for cable and wire manufacturers. Our customer list ranges from small and medium companies to global players like Nexans, Southwire and many more. ADVARIS Cable is now successfully in use worldwide. ADVARIS is an international software and consulting company

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Tel: 484-876-1137, 610-423-4335
Emails: victoria.dean@agc.com,
kristin.carlin@agc.com
Contacts: Victoria Dean, Kristin Carlin

AGC Chemicals Americas manufactures, markets and sells advanced fluoropolymer resins, fluoropolymer compounds and fluoroelastomers. AGC Chemicals Americas, Inc., www.agcchem.com, is a global subsidiary of AGC Inc., a multinational corporation and one of the world's largest manufacturers of glass, electronic displays and chemical products. Headquartered in Exton, Pa. including a state-of-the-art technology center, AGCCA maintains manufacturing operations in nearby Thorndale, PA, a satellite sales office in Brazil and warehouses and distributors located throughout North America.



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170 Pioneer Drive
Leominster, MA 01453 USA
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Emails: denise.wallace@alphagary.com,
francine.ayles@alphagary.com
Contacts: Denise Wallace, Francine Ayles

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Email: luigi.puglia@arkema.com
Web site: <https://hpp.arkema.com/en>

Arkema is a leading supplier of high-performance polymers to the wire and cable industry, Arkema's High Performance Polymers are commonly used for applications where extreme protection and reliability are required. A wide range of materials are available including Kynar® PVDF, Rilsan® Polyamide 11, Pebax® elastomers, Orgalloy® alloys and Kepstan® PEKK polymer. Key characteristics of these outstanding polymers include: high temperature resistance, low flame and smoke properties, chemical resistance, low temperature flexibility, and ease of processing. Kepstan® PEKK polymers are designed for applications requiring outstanding continuous use temperature (CUT) of 250-260°C along with excellent Mechanical Strength and excellent inherent Flame Smoke and Toxicity (FST) properties. Arkema's Rilsan® PA11 polymer is an excellent choice for wire jacketing where a biobased, renewable source material is desired.

Artofil bv 223

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5753 PB Deurne
The Netherlands
Tel: +31 493 329888
Contact: Jack Meijer
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Artofil is the manufacturer of High Tech Yarn for industrial applications. Customers rely on our knowhow and expertise for more than 70 years. Close co-operation enables Artofil to provide dedicated yarn solutions that fit our customer's requirements. We develop and produce high reliability quality products for high quality applications. Artofil is your Technical Yarn specialist and preferred partner for Water Blocking Yarn for Power Cable, Water Blocking Yarn for Fiber Optic Cable, Water Blocking Coating; Blockcoat, Aircraft Carpet Yarn, High Temperature Yarn and Tirecord Fabric Header Yarn.

ASI Silica Machinery, LLC 105

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Email: wamberg@asisilica.com
Contact: Wendy Amberg

ASI Silica Machinery is the global market leader in equipment and process for manufacturing optical fiber preforms. Founded in 1997, ASI Silica Machinery, LLC manufactures its equipment, supported by its own research and development facility, in the USA. The company designs and supplies a full range of machines for the production of core and clad silica based optical fiber preforms. ASI Silica Machinery equipment is operating in Europe, India, Asia and America. We are proud to have empowered key companies to take full control of their optical fiber production to meet increasing global demands. Our operating machines attest to high production volumes and financial performance, accounting for about 10% of the world's current optical fiber production. ASI/Silica Machinery is the preform capital equipment supplier of choice. Our research and manufacturing facilities are located in Los Angeles, CA, USA. Contact us to see how ASI Silica Machinery can help you produce optical fiber preforms at globally competitive prices.



EXHIBITOR DESCRIPTIONS

Aurora Plastics, LLC **304**
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 Tel: 216-233-5014, 330-348-1120
 Emails: mkuwatch@auroraplastics.com,
cschnell@auroraplastics.com
 Contacts: Matthew Kuwatch, Cam Schnell

Aurora Plastics supplies a complete line of thermo-plastic solutions for the wire and cable industry. Our expertise allows us to offer thermoplastic solutions with the performance characteristics you need, backed by the service and delivery you demand. AuroraGuard™ TPO compounds provide high-heat, low-smoke zero-halogen and flame-retardant properties, and are available with different levels of flame retardancy, low temperature properties, and mechanical performance properties. Fillers and additives are incorporated to meet any of your specific requirements.

AuroraFlex flexible PVC is a cost-effective alternative to higher cost compounds including TPEs, TPVs, and Fluoropolymers. These compounds provide flexible PVC from 45 to 90 Shore A durometer to semi-rigid, with specific gravities ranging from 1.15 to 1.65. We use various types of compound additives to promote long-lasting flexibility to meet specific needs, such as renewable non-phthalate, and the ability to be recycled and re-used. When you're looking for a compound that offers high-abrasion resistance and excellent processing properties, AuroraFlex SL is designed to produce longer-lasting materials, with no tearing and minimal wear.

Partnering with Aurora Plastics will allow you to receive expert technical support and unmatched service, allowing you to win with your customers in the market.



Aversion Technologies, Inc. **106**
 1125 West Street, Suite 328
 Annapolis, MD 21401 USA
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 Tel: 202-657-6300
 Email: ptutini@aversiontech.com
 Contact: Peter Tutini

Aversion Technologies produces high performance repellent and deterrent masterbatches incorporated into the most popular polymers to protect wires, cables, pipes, and tubes. Tested and used worldwide, our Repela products are the standard by which all others are measured. Non-toxic, low odor, and easy to handle pellets make processing with Repela a simple routine. Repela is the best protection for your cables.

AW Machinery **123**
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AW Machinery (AWM) is a North American manufacturer and integrator of machinery and control systems used in the manufacture of electrical wire, electrical cable and fiber optic coating.

BASF **309**
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 Website: www.basf.com
 Tel: 734-250-3143
 Email: patricia.presswood@basf.com
 Contact: Patricia Presswood

At BASF, we create chemistry—and have been doing so for more than 50 years. By combining customer driven innovation with a global presence and technical expertise under one roof, BASF Performance Materials delivers the right solutions for our customers' challenges. We offer a wide range of Thermoplastic Polyurethane Elastomers and Engineering Plastics that stand up to the harsh demands of wire and cable applications. The BASF portfolio includes polyamides, polysulfones and PBT. Elastollan® TPU, well-suited for high performance cabling when it comes to abrasion and wear resistance, low smoke/halogen free flame performance, high operating temperatures and weatherability.

EXHIBITOR DESCRIPTIONS

Cable Components Group

201

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glewcm@cablecomponents.com
Contacts: Lynne Russell, Charles Glew

Cable Components Group (CCG) designs, extrudes, and formulates high performance fillers and compounds for wire and cable, as well as fiber optic applications. CCG's patented chemical foaming technology, FluoroFoam®, enables foaming on traditional extrusion equipment without the need for costly capital expenditures. CCG is committed to providing chemically foamable solutions for cable components for any range of materials and temperature ratings. CCG's foaming technology can be used to lightweight cables, improve fire and electrical performance, and decrease raw material usage for any cable construction. The range of materials includes fluoropolymers (FEP, PFA, MFA, ECTFE, PVDF) engineered resins (PEEK, PEKK, PPSU, PPS, PES, PSU), and both halogenated and non-halogenated polyolefin formulas. FluoroFoam® is CCG's flagship line of chemically foamable fluoropolymers such as FEP and MFA for insulation.

Candor Sweden AB

422

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The Candor Group manufactures and supplies special chemicals, metals and equipment for the surface treatment, metal working and electronics industry. We are a leading manufacturer of plants assigned for the continuous plating of wire & strip, conventional electroplating and water purification.

Carris Reels

206

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Mathieu.St-Amour@carris.net
Contacts: Aaron Yaddow, Mathieu St-Amour

Carris Reels manufactures and distributes packaging solutions for the wire and cable industry including plywood, nailed wood, hardboard, plastic, wood/metal, and stamped metal reels. Additional services offered are recycling/repair services and logistics in the New England area. Its vast manufacturing network consists of multiple locations across the USA, Canada and Mexico, in addition to several warehouse/assembly locations. Carris Reels is 100% employee owned.

SAVE THE DATES FOR THE 2024 IWCS FORUM

Monday, October 14 – Thursday, October 17, 2024

Providence, Rhode Island, USA

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CBC Metals Processing
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Email: suzanne.mcguckin@Cimteq.com
Contact: Suzanne McGuckin

Innovative software solutions for the wire and cable industry, which improve the design process, centralize and share information, maximize efficiency, reduce cost and waste and increase sales. Our vast experience of the cable industry spans many industry sectors. Depending on the sector in which your company operates, your requirements will have specific considerations.





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Clinton Instrument Company 305
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 Website: www.clintoninstrument.com
 Tel: 860-395-7873
 Email: bcarroll@clintoninstrument.com
 Contact: Brockett Carroll

The Clinton Instrument Company, specialists in spark test technology for the wire and cable industry and inventor of the high-frequency sine wave spark tester, is pleased to be exhibiting at IWCS.



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Covestro LLC is part of the global Covestro business, which is one of the world's largest polymer companies. With its innovative products, processes and methods, the company helps enhance sustainability and the quality of life in many areas. The main segments served are the automotive, construction, wood processing and furniture, as well as electrical, electronics, and household appliances industries. Other sectors include sports and leisure, cosmetics, health and the chemical industry itself. The company is committed to becoming fully circular and aims to become climate neutral by 2035 (scope 1 and 2). Covestro generated group sales of around EUR 18.0 billion in fiscal 2022. At the end of 2022, the company had 50 production sites worldwide and employed approximately 18,000 people (calculated as full-time equivalents).

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International technical and business development consultant, Cernitin Solutions, Ltd. Charles Hozeska serves as a principal advisor in the electronic industry.

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Contact: Tane Zhao

Delesun Inc was wholly owned company by Seesun registered in USA exclusively for the American market and it has the full supports in terms of technical and production from its parent company and it has its targets on exploring and providing good products solutions and services to the markets in America directly and be with options of local collaboration for production and trade partners .

Seesun polymer material with more 20 years development history so far has been specializing in design and producing high grade of polymer composite material apply for multiple industrial applications for Chinese and international market. Among its branch of product lines and their sorts of applications, those made for power cable industry have taken much vital position with this company. The different technical demands from the cable working environments have been well addressed by the relevant products solutions. Such as normal silicone composite compound, calendared silicone sheet with reinforced sorts of fabrics and the fire & high temperature- resistant series containing of silicone sheet/ layer, fire- resistant polyolefin, etc. Presently, Seesun has been supplying many

reputable customers among this industrial, which are like Nexans, Prysmian and other key cable manufacturers globally

We provide silicone rubber compounds, high-temperature resistant silicone rubber compound for EV vehicle cable, fire resistant silicone compounds for fire resistant cable, flame-retardant silicone rubber that meets standard VW-1, silicone rubber compound meets standard of EN50382, oil resistant silicone rubber compound, FDA silicone rubber compound, EPDM and CPE Compounds, EVM and NBE compounds and fire retardant bands. Welcome to our booth 229.



DeWAL Industries **224**

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Tel: 800-9352940

Email: robert.paroskie@rogerscorporation.com

Contact: Robert Paroskie

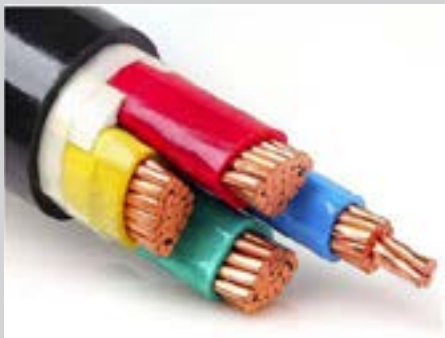
DeWAL Industries, part of Rogers Corporation, designs and manufactures high performance PTFE and UHMW-PE films and pressure sensitive tapes. DeWAL solutions for the wire and cable industry include unsintered PTFE, expanded PTFE (ePTFE), virgin skived PTFE and conductive skived PTFE. DeWAL solutions meet the most stringent specs in the industry, with consistent high quality you can trust. All DeWAL products are manufactured in the Narragansett, RI facility and are now supported by Rogers' global team.

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Special Rubber



Ceramic Refractory Polyolefin

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Excelitas Technologies® Corp.

212

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+1 800 668-8752 (US & Canada only)
Email: omnicure@excelitas.com
Website: www.excelitas.com

Excelitas Technologies® Corp. is a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions to meet the illumination, optical, optronic, sensing, detection and imaging needs of OEM customers. Our industry recognized OmniCure® product line offers innovative solutions to deliver faster, more consistent curing results to ensure customers benefit from the highest product quality and production efficiency. The OmniCure® AC9 Series utilizes a compact high-output air-cooled UV LED design and advanced front-end optics to achieve high-peak irradiance for greater flexibility in a variety

of wire, cable, and optical fiber applications. The AC9 series features a patented process that controls the output of individual UV LED modules to provide exceptional uniformity over the entire curing area, even in configurations where multiple UV LED heads are joined together to increase the curing area.

In February 2023, Excelitas acquired Phoseon™ Technology. Phoseon offers a broad portfolio of LED curing solutions to a wide range of applications and market segments, including wire & fiber coatings. Phoseon's UV LED fiber curing systems offer many benefits for curing fiber and wire applications, including optical fiber, electrical and structural wire, and threads for smart fabrics.



Expand your wire and cable curing capabilities with the most comprehensive product portfolio on the market.



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Kissimmee, FL

September 17-20, 2023

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Fiber Optic Center

218

23 Centre Street
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Contact: Joni Montemagno

Fiber Optic Center, Inc., (FOC), is an international leading distributor specializing in helping their customers make the best cable assemblies in the world. FOC partners with Technical Horsepower Consulting, LLC. (THC), an international leader in consultation and technical training in the areas of optical cable, optical sensors and cable/connector interface.

Fil-Tec, Inc.

109

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Contact: Christine Lovett

Fil-Tec, Inc. offers a complete line of performance yarns for application in power cables, copper and fiberoptic telecom and specialty cables. Products on display include: Binder Yarns with Water Blocking, Non-Wicking, Flame Retardant/Low Smoke finishes; Core Yarns; Ripcords; Filler Yarns; Marker Yarns; Fiberglass Reinforcement Yarns. Our Water Swellable Binder and Core (wrap around the FRP) Yarns offer the following benefits: a) Very low dust, extends life of bearings and other moving parts of the equipment; b) Less downtime due to mechanical maintenance related to SAP dust problems; c) Less clean up time; d) Cleaner working environment for the operator. Our technology produces a Water Swellable binder with higher yield, this means lower cost per kilometer of cable produced.

Gem Gravure Company Inc

131

112 School St.
Hanover, MA 02339 USA
Website: www.gemgravure.com
Tel: 781-206-9912
Email: asviokla@gemgravure.com
Contact: Annaliese Sviokla

When marking wire, a durable message requires a durable ink. Gem Gravure has more than 60 years of experience creating inks that survive in tough conditions. GEM offers ink jet fluids for use in all ink jet printers with pigmented inks a specialty. White ink WTG7160 and black ink BKG7161 provide enhanced adhesion on polyethylene, including HDPE and XLPE. BLG1866 bright aqua ink continues to grow in popularity as a single ink for dark and light surfaces. GEM inks pair with the alphaJET evo® ink jet printer for superior print quality at high speed. The alphaJET evo is specially designed to reduce make up/solvent use, saving you money and time. GEM is the exclusive North American representative for KBA Metronic alphaJET® ink jet printers. Software rounds out the full marking and coding process. GEM's custom software packages include diamondJET™, diamondBRIDGE™ and Code M. Protect and control your data with a tailored software solution.



Graham Engineering Company, LLC

122

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Graham Engineering Company has led the extrusion industry for more than 50 years, since the invention of the Graham Wheel in 1964. When it comes to extrusion, Graham and its brands American Kuhne® and Welex® specialize in constructing the perfect solution for your needs from their proven stable of machinery and the industry-leading Navigator® controls. Learn more about our company, history, people, and approach.

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Email: Info.hna@heraeus.com

Heraeus Noblelight manufactures specialized UV curing systems for optical fiber, cable and wire. Our innovative combination of high efficiency optics and modular UV lamps provide the most effective, reliable, and consistent curing for high speed production environments, especially 24/7 operations needing to minimize downtime. We offer systems for optical fiber draw towers, coloring and coating processes, high speed ink-jet marking of cable jacketing, and other printing and curing applications on linear products such as plastic extrusions, FRP strength members, wire, and cables. Our modular microwave-powered UV curing systems provide configuration and control flexibility while providing easy maintenance and replacement. The LightHammer® Mark III “smart” UV curing system incorporates internal sensors, enabling Industry 4.0 and real-time system performance monitoring. The result is: Significantly improved troubleshooting; Reduced downtime; and Lowest total cost of ownership. The Semray® UV PC6003 UV LED curing system offers a unique patented design specifically for optimizing optical fiber draw and coloring manufacturing processes. Reduce downtime and get the lowest total cost of ownership without sacrificing production speeds. Retrofitting existing draw towers and other fiber and cable processing lines is easy and cost effective with a typical payback of about 2 years.

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Tel: +32 80 22 87 63
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For more than 50 years Herkula has been supplying the cable industry with MarCablo inks for printing and marking on plastic insulated wires and cables. In the MarCablo product line, there are inks available for all types of materials used as cable insulation. We supply specially adapted products according to process control and speed.

Huber Advanced Materials 100
3100 Cumberland Blvd., Suite 600
Atlanta, GA 30339 USA
Website: www.huber.com
Tel: 678-313-1299
Contact/Email: Keith Sorrell, keith.sorrell@huber.com

Huber Advanced Materials is a trusted global leader and supplier of innovative and sustainable solutions. We manufacture a comprehensive portfolio of value-added Martinal®, Hydral®, Hymod® and Micral® aluminum hydroxides (ATH); Magnifin®, Vertex® and Zerogen® magnesium hydroxides (MDH); Kemgard® molybdate compounds; and Safire® nitrogen-phosphorus fire retardant technology. We deliver technical solutions for a variety of end-use applications, including wire and cable, reinforced polyester molding and pultrusion, engineering thermoplastics, roofing, silicone rubber, coatings and carpet backing. Huber Advanced Materials operates four manufacturing sites in North America and two in Europe. Our innovative portfolio of thermal management solutions includes Martoxid® TM, Magnifin® TM and Martinal® TM, which offer technical advantages like allowing for high filler loading levels while being reliable and cost-effective. In addition, Huber produces Martoxid® calcined aluminum oxide, Compalox® activated aluminum oxide and Pergopak® organic matting agents.



ADVANCED MATERIALS

Huestis Machine Corporation 200
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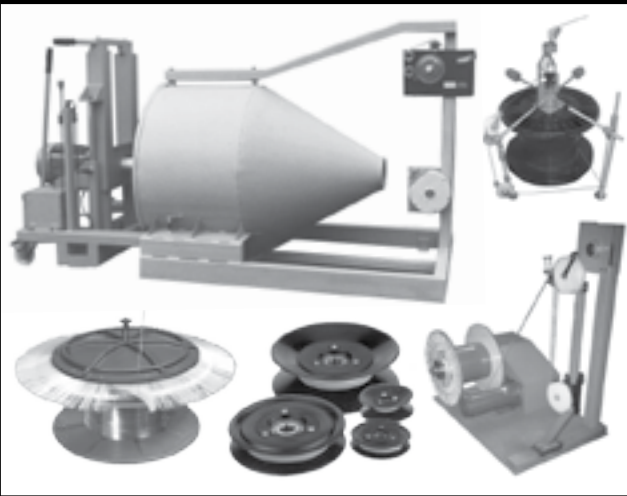
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EuroWire Magazine 330

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EuroWire is an international magazine for the wire and cable industries. Published six times per year, it covers technological developments concerning wire and cable manufacturing methods, production machinery and processing equipment. Every issue reports on specialist areas of wire and cable manufacturing.

IWCS 110

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IWCS organizes the Cable & Connectivity Industry Forum as the premier technology event for the exchange of information about product, material and process innovation for cabling and connectivity solutions. IWCS also provides networking and development opportunities for industry professionals and offers webinars on industry trends and technical innovations.



Jinhua Yonghe Fluorochemical Co., Ltd. 322

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Contact: Will Liao

Jinhua Yonghe is one of the subsidiaries of Yonghe Group which is a public listed group company boasting complete and comprehensive fluorochemical production line ranging from fluorospar mining to fluoropolymers. The product line includes FEP resin, PFA resin, PTFE fine powder and PVDF resin with registered trade name Niflon®. FEP,PFA and PVDF resins, with their extraordinary performance, are ideal choice fo wire and cable industry as insulation and jacket material. Our main product FEP Grade EW-511 andEW-521 is now widely used for CMP data cable in North America market. Welcome to booth 322 for more detailed information.

KN Manufacturing Solutions 418

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KN Manufacturing Solutions supports its wire and cable manufacturing customers in many ways by networking with companies and professional individuals that bring most value to projects and who are fun to work with. KN Manufacturing Solutions provides with cable machinery and optical fiber cable machinery through its agent and distributor representation. Company also develops and builds specialty and custom equipment for same applications. The company was founded in 2006 by Kari Nieminen, who before that had more than 25 years of experience in fiber optic and other wire and cable business.

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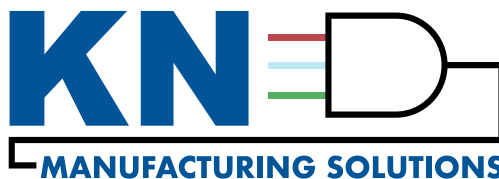


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LL Flex LLC 419

1225 West Burnett Avenue
Louisville, KY 40210 USA
Website: www.lflex.com
Tel: 502-636-8400, 447-921-3960, 17
Email: jlaverick@lflex.com
Contact: Jonathan Laverick

LL Flex, LCC is a leader in wire and cable and construction materials solutions, particularly industrial film and metal laminates. The company operates manufacturing facilities in Kentucky and North Carolina in the USA and has contract manufacturing, slitting and sales representatives globally. For the wire and cable industry, the company provides laminated steel, aluminum and copper tapes/armoring solutions.

Lloyd & Bouvier 313

10 Parker St
Clinton, MA 01510 USA
Website: www.lloydbouvier.com
Tel: 978-365-5700
Emails: tamar@lloydbouvier.com,
peter@lloydbouvier.com
Contacts: Tamar Kuipers Peter Kuipers

Lloyd & Bouvier, Inc. is your complete source for wire and cable machines. We sell new, used and refurbished wire and cable equipment: Extruders, Take-ups, Wire Payoffs, Capstans, Cablers, Wire Preheaters, Tapers, Bunchers including complete processing lines for Extrusion, Cabling, Taping and Respooling. Lloyd & Bouvier is North American Agent for Cortinovis Sictra, Division of Trafico, Italy. New rotating machines such as bunchers, cablers, drum twisters, rotating payoffs from Cortinovis and wire drawing machines for copper and aluminum from Scitra are available including parts for existing machines. Let our mechanical, electrical, engineering and quality control staff review your application specifications. Each new or refurbished machine or system is designed to the customer's specific requirement. Our in-house electronics department and modern machine shop provide customers with the latest technology.

M. Holland Company 124

400 Skokie Blvd, Suite 600
Northbrook, IL 60062 USA
Website: www.mholland.com
Tel: 216-695-7188, 847-997-5171
Emails: twaddle@mholland.com,
jzinkewich@mholland.com
Contacts: Todd Waddle, Jaclyn Zinkewich

We're a leading international distributor of thermoplastic resin, helping clients and suppliers with everything from sourcing and logistics solutions to strategic marketing channels. Manufacturers of wire and cable products have unique and complex material requirements. M. Holland offers a wide variety of plastic compounds, gels, tapes and copper conductors to meet the industry's diversified needs, allowing us to be a single-source supplier. Beyond the distribution of materials, we offer expert compounding capabilities to match our clients' specifications. We also provide a range of testing and application development services at our dedicated M. Holland Technical Services Laboratory. And because our materials ship from seven strategically located warehouses throughout North America, we help keep the supply chain reliable.

Madem-Moorecraft Reels USA, Inc. 125

3006 Anaconda Road, PO Box 1528
Tarboro, NC 27886 USA
Website: www.madem-moorecraft.com
Tel: 252-563-7070
Email: steve@madem-moorecraft.com
Contact: Stephen Redhage

Madem-Moorecraft Reels USA, Inc is proud to announce the opening of our newest manufacturing plant, located in Denton, TX. The Denton factory will manufacture nailed wooden and plywood reels, utilizing the latest IOT cnc technologies. Madem-Moorecraft is part of the world wide Madam Group of companies. Madem is among the largest forestry groups in Brazil and it is the leading worldwide manufacturer of wooden reels for electrical cable companies. With multiple production plants, Madem produces and supplies more than 40 countries.

Solve your wire and cable challenges.

We have the plastic compounds, gels, tapes and copper conductors, plus the testing and applications development services at our Technical Services Laboratory, to help you optimize your product lines.

Learn how we can help at MHolland.com/Our-Markets/Wire-Cable.



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Maillefer Extrusion Oy **420**

Ensimmäinen Savu
01510 Vantaa, Finland
Website: www.maillefer.net
Tel: +358 443 331 316, 358 405 248 854
Emails: pirita.olli@maillefer.net,

mikko.lahti@maillefer.net
Contacts: Pirita Olli, Mikko Lahti

Maillefer is the global leader in wire, cable, pipe and tube production technologies. We offer over 50 technologies and widest services portfolio in the industry to cover nearby 20 applications. From us, you can always get the best technical fit and value – from a single component to a complete factory – to match your lifecycle needs.

Mathiasen Machinery, Inc. **204**

450 Town Street
East Haddam, CT 06423 USA
Website: www.mathiasen-machinery.com
Tel: 860-873-1423
Email: mmi@mathiasen-machinery.com
Contact: Michael Mathiasen

Mathiasen Machinery, Inc. is now the exclusive North, Central and South America agent for Wire and Cable Machinery GmbH and PRATTO SA. Please contact us with your machinery requirements. MMI Buys and Sells new and used Wire and Cable, Tube and Fastener machinery..

Melos GmbH **118**

Bismarckstrasse 4-10
D-49324 Melle, Germany
Website: www.melos-gmbh.com
Tel: +49 54 22 94 47-0
Emails: angela.ehrich@melos-gmbh.com,

dennis.scherf@melos-gmbh.com
Contacts: Angela Ehrich, Dennis Scherf

Melos is a leading manufacturer and supplier of EPDM granules. We develop individual solutions for the most diverse rubber applications, including the cable industry and many other industrial sectors.

Miltec UV **104**

146 Log Canoe Circle
Stevensville, MD 21666 USA
Website: www.miltec.com
Tel: 410-604-2900, 410-604-2900
Emails: bmosner@miltec.com,
aellis@miltec.com
Contacts: Beth Mosner, Alicia Ellis

Miltec UV is a leading provider of innovative ultraviolet curing solutions for the optical fiber, draw, coloring, and FRP markets. Patented back reflectors and advanced optics deliver higher UV intensity directly to the fiber while its unique design provides optimum air flow and ease of maintenance. This enables an increase in line speed for improved performance with significant energy and operating savings.

Nabaltec AG **319**

Alustrasse 50-52,
Schwandorf 92421 Germany
Website: www.nabaltec.de
Tel: +49 9431 53464
Email: schlotter.andreas@nabaltec.de
Contact: Andreas Schlotter

Nabaltec AG, with registered office in Schwandorf, a chemicals business which has received multiple awards for innovativeness, manufactures, develops and distributes highly specialized products based on aluminum hydroxide and aluminum oxide on an industrial scale through its two product segments, “Functional Fillers” and “Specialty Alumina.” The company’s product range includes eco-friendly flame retardant fillers and functional additives for the plastics industry. Flame retardant fillers are used e.g. in cables in tunnels, airports, high-rise buildings and electronic devices, while additives have applications in catalysis and in electric vehicles. Nabaltec also produces specialty oxides for use in technical ceramics, the refractory and polishing industries. Nabaltec maintains production sites in Germany and the US and plans to continue to develop its market position by expanding capacity, further optimizing processes and quality and making strategic extensions to its product range. On the strength of its specialty products, the company strives to attain the market leadership in each segment.



Nabaltec



Visit us at booth #420

September 17-20, 2023

Orlando, Florida

USA



**Cable & Connectivity
Industry Forum™**

by IWCS

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Oman Fiber Optic S.A.O.C **415**
 Rusayl- Muscat Sultanate of Oman
 Muscat 5, Oman
 Wesbite: www.omanfiber.com
 Tel: 98819051, 96892039446
 Emails srinivasa.alluri@omanfiber.com,
nimish.pahwa@omanfiber.com
 Contacts: Srinivas Raju Alluri, Nimihs Rahwa

We strive to be the regional provider of choice based on quality and customer service, for tailor-made fiber optic and telecom solutions.

OptEM Engineering Inc. **328**
 Suite 509, 1726 14th Ave. NW
 Calgary, AB Canada T2N 4Y8
 Wesbsite: www.optem.com
 Tel: 403-289-0499
 Email: info@optem.com
 Contact: Joan Beckett

OptEM Cable Designer software gives engineers the ability to design, model and simulate copper cables that meet compliance requirements and certification. Engineers can investigate cable behavior, test material effects, and calculate cable mass and cost – all prior to prototyping and measurement – allowing companies to reduce prototype iterations and manufacturing cost. The software uses advanced electromagnetic analysis and mathematical modeling techniques to simulate the cable's electrical and propagation parameters (L, R, C, G, Zo, IL, RL, XT, TCTL) to check cable performance. The new Graphical User Interface (GUI) supports polar and cartesian coordinate systems with auto-assisted cable construction from user-selected components (auto-placement). A new symmetrical polygon shape draws unique divider structures quickly and easily. The GUI supports enhanced 3D modeling with auto-stripping, transparency and continuous model rotation. Multi-functional window tabs provide details of all instances within a cable hierarchy and access to all output generated for a design. There is a new module for calculation and reporting of Bill of Materials (BOM), and an automated plotting module, Result Display, with features for placing markers, taking measurements, data scaling and more. The GUI takes advantage of the latest software development technologies to give engineers a powerful and fun cable design environment. Come visit our booth to see a personalized demonstration of OptEM Cable Designer.

Orion S.A. **108**
 1700 City Plaza Drive, Suite 300
 Spring, TX 77389, USA
 Tel: 832-445-3300
 Contact: Kevin Milks
 Email: Kevin.Milks@orioncarbons.com
 Website: www.orioncarbons.com

Orion S.A. offers a comprehensive portfolio of high-performance conductive additives which extend cable service life by imparting desired conductivities, superior surface smoothness and UV protection to medium- and high-voltage (HV) cables. Acetylene-based premium PRINTEX® kappa 100 BEADS delivers exceptionally high cleanliness, purity and conductivity to HV electric transmission cables. To increase acetylene black availability, Orion will build the only U.S. plant producing acetylene-based conductive additives. Planned for LaPorte, Texas, the plant is expected to begin operation during the first half of 2025.

Marketed under PRINTEX, HIBLACK® and AROSPERSE® brand names, Orion grades provide target conductivity to minimize dielectric stress between the conductor and cable insulation. They improve cable service life by imparting conductivity characteristics to compounds for low-, medium- and high-voltage cables and by delivering UV protection for cable jacketing.

Orion, a leading global supplier of carbon black, produces the material to customers' specifications for tires, coatings, ink, batteries, plastics and numerous other specialty, high-performance applications. Carbon black is used to tint, colorize, provide reinforcement, conduct electricity, increase durability, and add UV protection. A leading innovator, Orion applies a deep understanding of customers' needs to deliver sustainable solutions.

Phoseon™ Technology **212**
 7425 NE Evergreen Pkwy.,
 Hillsboro, OR 97124 USA
 Tel: 503-439-6446
 Contact: Tad Bozdech
 Email: tad.bozdech@excelitas.com
 Website: <https://phoseon.com/>

Phoseon™ Technology was acquired by Excelitas Technologies® Corp. (Waltham, MA) in February 2023. Since 2002, Phoseon™ Technology has pioneered the use of LED technology. Through our relentless innovation, we deliver high performance,

EXHIBITOR DESCRIPTIONS

reliable and patented LED-based solutions. Our strong focus on customer collaboration has resulted in worldwide market leadership position and presence. Phoseon is an ISO9001 certified company manufacturing award winning products that are covered by more than 300 patents worldwide. Phoseon provides the broadest portfolio of LED curing solutions to wide range of applications and market segments including: labels and packaging, container decoration, digital printing, wire and fiber coatings, electronics, automotive assembly, medical devices, wood furniture and many more. We uniquely focus 100% on LED technology therefore ensuring superior reliability, business economics, and environmental benefits.



Photon Kinetics **409**

Photon Kinetics 9305 SW Gemini Drive
Beaverton, OR 97008 USA
Website: www.pkinetics.com
Tel: 503-526-4655, 503-526-4759
Emails: dave.kritler@pkinetics.com,
barry.gill@pkinetics.com
Contacts: Dave Kritler, Barry Gill

Leading supplier of high-performance testing solutions for the developers and manufacturers of optical fibers, cables and fiber-based components.

Proton Products Inc **107**

9297 Jeronimo Road
Irvine, CA 92618 USA
Website: www.protonproducts.com
Tel: 949-981-1909
Email: grantlatimer@protonproducts.us
Contact: Grant Latimer

Proton Products Group was founded in 2000 and is a privately-owned British company with an international customer base. Proton Products is a leading manufacturer of instrumentation and control equipment for use in industrial production. We continue to expand our product range with affordable, innovative technology which provides our customers with solutions that improve production capabilities and efficiency. Our products make use of ad-

vanced technologies including laser Doppler speed and length measurement, laser scanning diameter measurement, CCD diameter measurement, high-frequency induction preheating, and digital control systems. Our dedicated and experienced team of professionals operate within a culture of continuous improvement and are firmly focused on developing innovative solutions and high-quality products backed with excellent service.

REELEX Packaging Solutions, Inc. **128**

39 Jon Barrett Road
Patterson, NY 12563 USA
Website: www.reelex.com
Tel: 845-878-7878, 845-495-4141
Emails: timcopp@reelex.com,
sales@reelex.com
Contact: Timothy Copp

REELEX Packaging Solutions, Inc. will be attending the supplier exhibition at IWCS Cable & Connectivity Forum in Orlando, FL this September with a focus on two new next-generation REELEX® coiling machines and the latest packaging innovations.

Exhibiting in booth 128, REELEX will have videos and other information on display to present two of the new standard in REELEX coiling machines, the S320 and M340. These new machines represent the latest in REELEX equipment and coiling technologies.

REELEX will also exhibit physical examples of a variety of packaging available to low-voltage and fiber optic cable manufacturers, including the new REELEX AIR® package offering a slimmer profile, greater payout performance, a more environmentally-friendly waste profile and lower material costs than current REELEX and other packaging options. REELEX is a patented method of winding any flexible filamentary material into a precision-wound figure-eight coil. This unique coil dispenses from the inside-out without twists, tangles, snags or overruns and may be placed into a wide range of containers from cardboard boxes to shrink film to environmentally-sustainable packaging.



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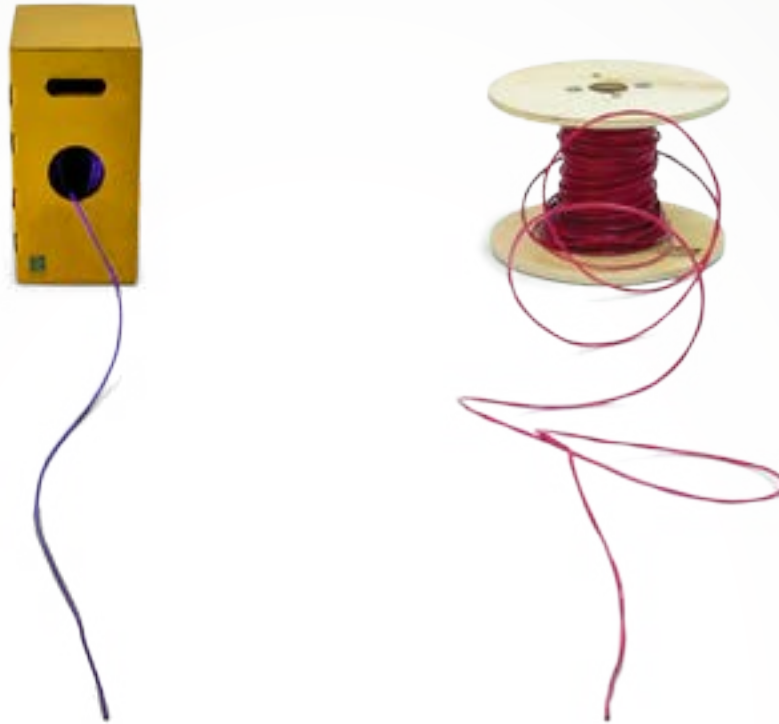
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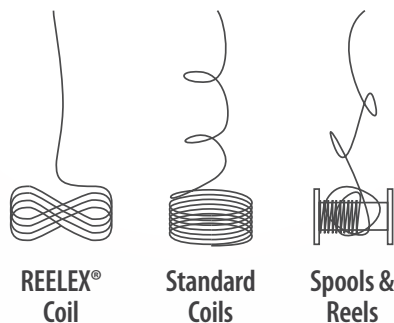
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Consider the view from an **installer's perspective...**



Only REELEX® offers **30% faster installations**, **tangle** and **twist-free** payout, **no rotation** or inertia, more **recyclable** materials, easy **stacking** and storage, **easy carrying** on and off the jobsite, **less waste** and still dispenses cable **even if the package is damaged**.



On Display at
Cable & Connectivity
Industry Forum
Booth 128

Contact us to experience the benefits of low-waste, low-cost packaging technology without twists, tangles or rotation.

EXHIBITOR DESCRIPTIONS

Roblon US Inc 424
3908 Hickory Blvd
Granite Falls, NC 28630 USA
Website: www.roblon.com
Tel: 828-326-2121, 828-326-2121
Emails: jli@roblon.com, tm@roblon.com
Contacts: Jamey Little, Tammy Wagner
The Roblon brand is considered the very embodiment of endurance when it comes to enhancing fiber solutions for a wide range of industries.

SACO AEI Polymers 413
3220 Crocker Ave.
Sheboygan, WI 53081 USA
Website: www.sacoaei.com
Tel: 920-889-2331, 920-226-9520
Emails: Kurt.Minnick@sacoaei.com,
allan.marconi@sacoaei.com
Contacts: Kurt Minnick, Allan Marconi
Offered by Saco Polymers are Pexidan® moisture crosslinkable polyolefin compounds, pipe and tubing products, low-voltage wire insulation products, thermoplastic compounds, thermoplastic jacketing compounds for wire and cable, tolling and specialty compounding products.

Saint-Gobain 306
701 Daniel Webster Highway
Merrimack, NH 03053 USA
Website: www.saint-gobain.com
Tel: +353 85 1123299, +353 87 9560197
Emails: Diarmaid.Williams@saint-gobain.com,
marta.miciula-osak@saint-gobain.com
Contacts: Diarmaid Williams,
Marta Miciula-Osak

Saint-Gobain is a global leader in high-performance, technology-driven materials. Through our ability to provide proven products, customized solutions, and complete systems, we serve customers across a diverse array of sectors, including aerospace, automotive, defense, communications, construction, and beyond. Our one-stop shop provides a wide product offering in the market to meet the wire and cabling challenges you face. The spirit of collaboration and co-development that sets our partnerships apart serves as the basis of trusted relationships that inspire truly innovative possibilities. We work with partners in the electronics & communications industry to create materials and solutions that always deliver excellent dielectric performance in demanding extreme conditions for high temperature resistant cabling. Our wide network of facilities offers you a peace of mind and security of supply. Our VERSIV™ offering centres around advanced films and fabrics, with expertise in providing fluoropolymer-based films, fabrics, foils and tapes serving as safe, high temperature-resistant, protective barriers. Our range of advanced ceramic composites include Quartzel® products, available as yarn, braided, woven and non-woven; providing cable protection which combines the low resistivity of silica along with high-thermal and fire resistance. Saint-Gobain provides you with solutions offering excellent dielectrics in demanding extreme conditions for high temperature cabling, with ability to develop products designed especially for your needs.

SAVE THE DATES FOR THE 2024 IWCS FORUM
Monday, October 14 – Thursday, October 17, 2024
Providence, Rhode Island, xUSA

[Refer to details on page 22.](#)



what fibers can count on



Full manufacturing solutions
and tailor-made equipment
for the production of premium-
quality fiber optical cables.

meet us at
booth 323

rosendahlnextrom.com



Rosendahl Nextrom

4260 NC HWY 10 E

Claremont, NC 28610 USA

Website: www.rosendahlnextrom.com

Tel: 828-464-2543

Email:

anita.hennessee@rosendahlnextrom.com

Contact: Anita Hennessee

At this year's IWCS, Rosendahl Nextrom is introducing brand-new features to open up new possibilities for manufacturers of fiber optical cables: A high-speed fiber launching system makes continuous PP dry tube production easy. An entirely redesigned fiber cutter saves time and material waste. A new die system for jelly filling significantly enhances process stability. A dual-clenching system increases production speed up to 25%. Recently, the company added an advanced ribbon cable technology to its product range. It is optimized for superior optical performance, as well as for excellent mechanical strength, and includes a buffering process for rollable ribbons.

For the production of metal data cables, Rosendahl Nextrom has specially developed an AI-based process control that delivers outstanding results in the foaming process, making tighter tolerances and improved electrical properties possible. This algorithm also reduces start-up scrap significantly. With these advances, Rosendahl Nextrom solutions provide the best preconditions for high-performance data cables, such as Cat8, and special cables for use in medical, aerospace, and other special applications. For the processing of high-temperature materials, the company also offers extremely precise and at the same time robust extruders and crossheads, as well as customized processes.

There is also big news in the automotive cables sector: Rosendahl recently launched the world's first industry-ready turnkey extrusion line for hairpins with outstanding product properties and a fast and efficient process that puts conventional enamelling solutions to the test.

For first-hand information, please visit the Rosendahl Nextrom team at booth #323.



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SAMP USA, Inc. 230

10310 Governor Lane Blvd.
Williamsport, MD 21795 USA
Website: www.sampgroup.com
Tel: 301-331-5154
Email: d.graff@sampgroup.com
Contact: David Graff

We are the world's leading wire and cable machine supplier, enabling our customers to power and connect the world more productively, efficiently and sustainably.

Saylor Technical Products LLC. 400

17484 Saylor Lane
Grand Rapids, OH 43522 USA
Website: www.saylorproducts.com
Tel: 419-786-9981, 419-832-2125
Emails: greg@saylorproducts.com,
doug@saylorproducts.com
Contact: Greg Zuber, Doug Mueller

Saylor Technical Products, a Precision Products Group company, has been manufacturing flexible, non-metallic, wire and hose protection (sleeving and loom) for well over a century.

Service Thread 412

17900 Dana Dr.
Laurinburg, NC 28352 USA
Website: www.servicethread.com
Tel: 910-277-7456
Email: steve.zande@servicethread.com
Contact: Steve Zande

Service Thread designs, develops, and manufactures binders, ripcords, strength members and fillers from aramid, polyester, nylon, polypropylene and other specialty fibers. Our products are designed for wire and cable and are available with water blocking, non-wicking, abrasion resistant and other properties as needed. In our manufacturing process we ply, twist, treat and wind a variety of textile yarns. Through our own processes, we have become experts in package design, controlling yarn tension and other variables that can affect our customer's application of the yarns into their manufacturing process. We work with our wire and cable customers, sharing our yarn processing techniques, often resulting in faster processing speeds with less waste. Our goal is not to simply

sell yarn products, but to offer a full service experience. We don't send out a catalogue of products and encourage you to buy today; we want to talk to you to learn about what you are using, why you are using it, and how it fits into your cable. Our goal is to provide our wire and cable customers value beyond what you may be receiving now, and to help the industry with innovation in products and processes.

SETIC s.a.s. 120

126 rue de matel
42300 Roanne, France
Website: www.setic-pourtier.com
Tel: +33 477232658
Email: pco@setic.info
Contact: Philie Colin

SETIC and POURTIER are worldwide leaders in designing and manufacturing rotating machines for ferrous and non-ferrous cable. On booth 120, you will discover SETIC: leader in special, data communication & LAN cables machinery for Automation, AI, Robotics and data analytics sectors and a major actor in the automotive wire equipment's. POURTIER: heavy-duty rotating machines to produce all types of power cables: overhead, submarine and Low, Medium, High Voltage and Extra-high Voltage. To achieve a higher level of performance and extended lifetime of the machines, a comprehensive range of services is also available thought: C2S Customer Services department is the ideal partner for spare parts, machines upgrade, consulting possibilities. BOW TECHNOLOGY makes high graded carbon bows for all sizes and all brands of double twist equipment.

Shresht Composites Inc. 425

1106 S Gardenia St
Pharr, TX 78577 USA
Website: www.superindiafrp.com
Tel: 91-9911856122
Emails: pkagrawal@superindiafrp.com,
myadav@superindiafrp.com
Contacts: Prashant Kumar Agrawal,
Mukesh Kumar Yadav

World class supplier of millions of Km of high-strength FRP/ARP rods to the most reputed optical fiber cable manufacturers across the globe.

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SIKORA

225

150 Huddleston Road, Suite 1300
Peachtree City, GA 30269 USA
Website: www.sikora.net
Tel: 770-486-1233
Email: sales@sikora-usa.com
Contact: Ashley Miner

SIKORA, a manufacturer and supplier of advanced measuring, control, inspection, analysis and sorting technology, will be at IWCS booth 225. Visitors will have the opportunity to see a variety of online measuring and control systems that ensure quality control and process optimization in the wire, cable and optical fiber markets. SIKORA will display the CENTERVIEW 8000, which measures the diameter, ovality and eccentricity of jacketed wire up to 1" in diameter. For precise diameter and ovality measurement, in conjunction with lump detection, SIKORA features the highspeed LASER LUMP 2000 series. Other highlights at SIKORA's booth include the FIBER 6000 series for quality control of optical fibers in the drawing tower. These comprise of gauge heads for measuring the fiber diameter, temperature, tension and concentricity of the fiber coating, as well as for the detection of lumps and neckdowns on the surface of the coated fiber.

Supermac Industries Ltd.

421

A-28, Naraina
Industrial Area, Phase-1, New Delhi, 110028, India
Website: www.supermacindia.com
Tel: 011-45574317
Email: jasvinder@supermacindia.com
Contact: Jasvinder Singh

Supermac Industries (India) Limited is a technological leader in manufacturing of Extrusion machines since 1974. It is a leading FEP wire extrusion line manufacturer and Rewinding machine suppliers offering a complete range of crossheads, caterpillars, belt wrap capstans, screws, and barrels.

Submarine Telecoms Forum

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Website: www.subtelforum.com
Submarine Telecoms Forum is the leading digital platform for submarine cable industry insights, offering a dedicated e-magazine, daily news feed, and streaming video content.

TDC

231

980 Derita Rd., Suite B
Concord, NC 28027 USA
Website: www.technicaldevelopment.com
Tel: 704-875-1198
Email:
keith.earhart@technicaldevelopment.com
Contact: Keith Earhart

Technical Development Corporation (TDC) is an engineering and machinery manufacturing firm.

Teknor Apex

213

505 Central Avenue
Pawtucket, RI 02861 USA
Website: www.teknorapex.com
Tel: 401-642-3309, 401-642-3348
Emails: dbraun@teknorapex.com,
lcardoso@teknorapex.com
Contacts: David Braun, Linda Cardoso

Teknor Apex features a full range of thermoplastic insulation and jacketing compounds for wire and cable applications - Apex® flexible and semi-rigid PVC for appliance wire, building wire and control cables; Fireguard® low smoke, highly flame retardant PVC for copper and optical fiber data cables for plenum applications; Flexalloy® PVC elastomers for robotics, industrial cables, EV charger cables and flexible cords; and Halguard® low smoke, halogen-free, flame retardant compounds capable of meeting applicable UL and EU CPR requirements for infrastructure cables. Our portfolio includes one of the broadest ranges of UL Recognized wire and cable compounds in the industry and as a market leader – we are continuously innovating and raising the benchmarks for extrusion and molding solutions for wire and cable. The superior performance and excellent processing characteristics of our products are a testament to our commitment to the industry. A privately held firm founded in 1924, Teknor Apex is one of the world's leading custom compounders of plastics. Teknor Apex produces flexible vinyl, thermoplastic elastomers, nylons, color masterbatches, specialty chemicals and hoses.

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-  1 (800) 241-4311
-  11 Spruce Street
Leominster, MA 01453
-  thermoplasticseng.com

Call us today at
1 (800) 241-4311

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Tektapes

5600 NW Central Dr, Suite 206
Houston, TX 77092 USA
Website: www.tektapes.com
Tel: 713-851-5713
Email: npatel@tektapes.com
Contact: Neerav Patel

Tektapes™ is a Snehm Group company serving North & South America with specialty tape products and solutions. Our extensive product range contains both semi-conductive and non-conductive tapes for industry wide applications including water blocking, bedding, binding, separation and heat resistance. We serve leading electrical, power, telecom and specialist cable manufacturers globally with performance oriented and innovative products and solutions.

Tensor Machinery Ltd

1570 52nd Avenue
Montreal, Quebec H8T 2X9 Canada
Website: www.tensormachinery.com
Tel: 514-633-8555, 828-781-3920
Emails: jennifer.kepes@tensormachinery.com,
ken.luterbach@tensormachinery.com
Contacts: Jennifer Martin-Kepes,
Ken Luterbach

Tensor Machinery Ltd. has been a designer and builder of process equipment for the wire and cable industry for decades. Tensor Machinery provides a wide range of equipment to manufacture fiber optic and copper cables from individual components to complete turnkey manufacturing lines. Our typical products include UV Coloring lines, Ribbon Fiber manufacturing, SZ and Planetary Stranding, Payoffs and Take-ups, Tape Armoring, Yarn Serving and complete Jacketing lines for Indoor and Outdoor cable products. The Tensor equipment uses the latest in mechanical, electrical and electronic technology and is engineered to withstand the daily demand placed on it by production.

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Thermoplastics Engineering Corporation (TEC)

11 Spruce Street
Leominster, MA 01453 USA
Website: www.thermoplasticseng.com
Tel: 978-660-0599
Email: broberts@thermoplasticseng.com
Contact: Benjamin Roberts

TEC was formed in the summer of 1986 in Leominster, Massachusetts and has been providing quality machines to customers ever since. Thermoplastics Engineering Corporation is a trusted supplier of Extruders, Cablers, Respoolers, Payoffs and Takeups, and many other types of Wire, Cable, Extrusion, and Fiber Optic machinery. We create standard and custom machinery to your specifications using experience and a knowledgeable staff of industry professionals. Our staff of experienced mechanics, engineers, electricians, programmers, and machinists are capable of building quality machinery, and our sales team is eager to assist you in selecting the correct machines for your application. Our overall goal is to help you find the best solution to your production needs. TEC has designed components for Wire and Cable, Fiber Optic, Tubing and profile Extrusion markets.



Wacker Chemical Corporation

4950 S. State Rd.
Ann Arbor, MI 48108 USA
Website: www.wacker.com
Tel: 734-838-8208
Email: matthew.mason@wacker.com
Contact: Matthew Mason

A technological leader in the chemical industry and manufactures products for all key global industries. It is active in the silicone, polymer, life sciences and polysilicon markets .

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Wardwell Braiding Co. **205**
1211 High Street
Central Falls, RI 02863 USA
Website: www.wardwell.com
Tel: 401-724-8800
Emails: cchen@wardwell.com,
sales@wardwell.com
Contacts: Cynthia Tomaz, John Tomaz

The Wardwell Braiding Co. is a world leading supplier of braiding machines and equipment. Since the company's founding in 1911 by Simon Wardwell, Wardwell Braiding's engineers have continually introduced advances in technology that have made Wardwell braiders the industry standard for overall value.



WCISA® (Wire and Cable Industry Suppliers Association®) **130**
1741 Akron Peninsula Road,
Akron, OH 44313 USA
Tel: 330-864-2122
Contact: Mike McNulty
Email: info@wcisaonline.org
Website: www.wcisaonline.org

WCISA® is a nonprofit association of more than 100 North American suppliers of machinery, materials, accessories and controls used for making all types of wire and cable. WCISA is a longtime supporter of the IWCS. WCISA's mission is to promote its member's products and services by providing its members with representation, networking/social opportunities and services at events and conferences. WCISA also awards to scholarships.



Web Industries **219**
293 Boston Post Rd W Suite 510
Marlborough, MA 01752 USA
Website: www.webindustries.com
Tel: +1 508-573-7979
Email: sales@webindustries.com
Contact: Jim Evans,
Business Development Manager

The world's top companies trust Web Industries' innovative engineering, converting, and manufacturing solutions to improve their products and bottom lines. A leader in specialty films and foamed, fibrillated, and highly-customized laminated tapes.

On-premise formulation and extrusion provide complete control over the film- and foam-making process, allowing us to custom-tailor performance to finished products. Our collocated converting, laminating, and assembly services offer a single-source domestic supplier solution for U.S.-based manufacturers. Web Industries' product portfolio includes the SuperBulk® cable filler, foamed & solid separator tapes, binder tapes, laminated shielding tapes, PET core wrap and narrow-width flat & fibrillated PP/HDPE-based tapes. With production facilities in North America, we're always available for quick collaboration and easy ordering. Our end-to-end design, development, converting, and automated manufacturing services with innovative thinking and creative problem-solving, ensures our partner's success by accelerating product time to market.



More Products - More Solutions

Tradition of technological expertise in braiding, spiraling and winding

Tailor-made solutions from a single source

A strong partnership for the Cable Industry



Spirka Schnellflechter GmbH

Spirka Schnellflechter GmbH
Wilhelminenhofstraße 76/77
12459 Berlin, Germany
Phone: +49 (0) 30 549918-0
Fax: +49 (0) 30 549918-45
E-Mail: info@spirka-schnellflechter.com
Internet: www.spirka-schnellflechter.com



WARDWELL

Wardwell Braiding Co.
1211 High Street
Central Falls, RI 02863, USA
Phone: +1 401 724 8800
Fax: +1 401 723 2690
E-Mail: sales@wardwell.com
Internet: www.wardwell.com

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Wire & Cable Technology International (WCTI) 130

1741 Akron Peninsula Road
Akron, OH 44313 USA
Website: www.wiretech.com
Tel: 330-864-2122
Email: alex@wiretech.com,
mike@wiretech.com, mcnulty@wiretech.com
Contact: Alex Lippincott, Mike Dies,
Mike McNulty

Wire & Cable Technology International, the Official Magazine of the IWCS Cable & Connectivity Industry Forum, is a leading worldwide technical magazine, covering the production, processing and use of communications, electrical and mechanical wire and cable. The magazine is published six times per year, in both print and digital editions, and it is distributed to wire and cable industry professionals in more than 100 countries. Additional publications include the annual Buyer's Guide, the monthly OVERVIEW business and marketing newsletter and the IWCS Supplier Exhibition Directory.



Wire and Plastic Machinery Corp. 113

100 Franklin Street, PO Box 2928
Bristol, CT 06011 USA
Website: www.wireandplastic.com
Tel: 774-721-1185, 860-689-2671
Emails: emacs@wireandplastic.com,
rsachdev@wireandplastic.com
Contacts: Erik Macs, Rahul Sachdev

With over 30,000 items of machinery in stock and eight warehouses, Wire & Plastic Machinery Corp. is the largest supplier of used wire and cable equipment in the world. Wire & Plastic Machinery Corp. is actively engaged in purchasing high-quality used equipment for stock to offer its customers a one stop selection. The equipment is sold either in its original state or after mechanical and electrical refurbishing, to today's standards. A wide range of equipment is available for producing almost all cable types such as fiber optic, low-voltage cables, data cable, automotive, power and specialized electrical cables. Categories include Barrel Packers, Binders, Bobbin Winders, Braiders, Capstans, Caterpullers, Coilers, Dancers, Extruders (Plastic and Rubber), Extrusion Lines, Granulators, Motors, Optical Fiber Equipment, Ovens, Payoffs, Preheaters, Printers, Reels, Rewinders, Rotating Equipment, Screws, Stripers, Strippers, Takeups, Tapers, Testers, Tubular Strandings, Welders and Wire Drawing.



SAVE THE DATES FOR THE 2024 IWCS FORUM
Monday, October 14 – Thursday, October 17, 2024
Providence, Rhode Island, xUSA

[Refer to details on page 22.](#)

EXHIBITOR DESCRIPTIONS

Wire Association International/ Wire Journal

429

71 Bradley Road Suite 9
Madison, CT 06443 USA
Website: www.wirenet.org
Tel: 203-458-7578
Email: stimme@wirenet.org
Contact: Shannon Timme

The Wire Association International (WAI), Inc., founded in 1930, is a worldwide technical society for wire and cable industry professionals. The Wire Association International is the official trade-show organizer of the WAI Operations Summit & Wire Expo and Interwire trade shows that promote products and services to the global wire and cable marketplace. The Wire Association International's official website, wirenet.org, hosts the online Industry Search, a database and search engine housing over 3200 company profiles. Wire Journal International and the annual WJI Reference Guide are WAI's official publications, and the monthly "Off the Press" e-newsletter is the official newsletter. WAI also produces technical products, including HardWIRED educational videos and a host of technical handbooks, webinars, and DVD's. Stream WAI videos and past webinars on the WAI YouTube channel.

Xaloy LLC

408

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Emails: Stephanie.Calascibetti@xaloy.com, todd.hyre@xaloy.com
Contacts: Stephanie Calascibetti, Todd Hyre

Xaloy designs and manufactures bimetallic plasticizing equipment. Xaloy's bimetallic screws and barrels are specifically designed to meet your process requirements, minimize wear, boost output and improve quality.

Zumbach

403

140 Kisco Ave
Mount Kisco, NY 10459 USA
Website: www.zumbach.com
Tel: 914-241-7080
Email: sales@zumbach.com
Contact: Jorge Lage

Zumbach offers measuring solutions for wire drawing, enamelling and coating processes. Our measuring solutions can help you improve your production of high frequency cables, signal and control cables, energy cables and much more.

With Zumbach measuring systems, measuring values can be displayed, monitored and controlled directly in real time during the production process. This enables you to perform constant quality assurance during production. The optimization is based on a continuous statistical analysis with which the process is optimized to reach its full potential, taking into account any machine instabilities that might exist.

SAVE THE DATES FOR THE 2024 IWCS FORUM

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Vanderbilt Chemicals, LLC

A Wholly Owned Subsidiary of R.T. Vanderbilt Holding Company, Inc.

Our Company

From its early beginnings in 1916, Vanderbilt Chemicals, LLC has grown to supply a wide range of products to many different industries, including rubber, plastics, petroleum, paint, CASE, pharmaceutical, agricultural, ceramic, personal care, and household products.

In addition to offering a variety of products from key suppliers, Vanderbilt Chemicals, LLC produces a number of ultra accelerators and antioxidants out of its large chemical manufacturing facility in Murray, Kentucky.

The Vanderbilt companies offer products in the United States and in some 80 countries around the world. Vanderbilt Worldwide Limited, with an office in Nantwich, UK, provides marketing, technical, and sales support for Vanderbilt Chemicals in Europe, Middle East, and Africa and Vanderbilt (Beijing) Trading, Ltd. has an office in Beijing, China. Our corporate headquarters, including our analytical and application labs, is located in Norwalk, CT.

Headquarters

30 Winfield Street, Norwalk, CT 06855 USA

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Tel: +1 203-853-1400

Fax: +1 203-853-1452

Our Products

- EPDM
- EOM
- CR
- FKM
- FFKM
- CIIR
- BIIR
- DENKA ER ETHYLENE ACRYLIC COPOLYMER
- POE
- PEROXIDES
- COAGENTS
- ACCELERATORS
- ANTIOXIDANTS
- HALS
- UVA'S
- PROCESS AIDS
- MINERAL FILLERS
- TACKIFYING RESINS

Our Mission

Building relationships to achieve sustainable and ethical growth through a culture of quality and innovation.



Vanderbilt's chemical plant in Murray, Kentucky

www.vanderbiltchemicals.com

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Company Profile

AGC Chemicals Americas, Inc. is a leading global supplier of advanced materials and is a global subsidiary of AGC Inc., a multinational corporation and one of the world's largest manufacturers of glass, electronic displays and chemical products. Chemical products account for 35% of AGC's sales. AGCCA is located in Exton, PA and the company's compounding plant is in nearby Downingtown, PA. AGCCA manufactures, markets and sells high performance fluoropolymer resins, fluoroelastomers, custom compounds and specialty chemicals and materials. Please visit www.agcchem.com for full product and services details as well as compliance certificates and ISO registrations. Onsite technical support, testing, application and product development capabilities are available at the Exton, PA site.



Product Lines

As a leading manufacturer of Fluon® PTFE, ETFE, PFA, Fluon+ MPC melt processable compounds and masterbatches for extrusion into wire and cable jackets and insulated coatings, the company's product breadth covers a wide range of applications in the automotive, aerospace, chemical processing, resource recovery, electronics and semiconductor markets. The company manufactures custom compounds to precise specifications and specializes in compounding all melt processable resins including ECTFE, PVDF, ETFE, FEP and PFA.

Fluon+ MPC melt processable compounds are manufactured into eight (8) different types:

- Color concentrates
- Modified plastics
- Foam concentrates
- Cross-linkable compounds
- Conductive/Anti-static
- Flexible compounds
- Reinforced compounds
- Adhesive grades



Key Attributes

- Superior chemical resistance and mechanical performance
- Can be formulated for static dissipative or conductive properties
- ROHS compliant pigments; REACH compliant
- Ability to be laser marked for excellent contrast
- Stable pigments at elevated temperature applications
- Can be injection molded into intricate shapes and parts
- Provide various modifications to pigment intensity and melt viscosities
- Ten standard colors or custom color-matching capabilities

Featured Products



- Includes mPEEK, mPPS and more
- Proprietary fluoropolymer modification and compounding technology
- Improves impact and wear resistance and maintains flexibility
- Enhanced physical and electrical properties
- Can be processed by conventional molding techniques



- Flat wire coating materials for high-voltage systems
- Used as polymer and enamel layers replacing neat PEEK, PI and PFA
- Excellent adhesion, improved flexibility and impact strength
- High heat resistance and superior electrical insulation

AGC Chemicals Americas, Inc.
55 E. Uwchlan Avenue, Suite 201
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United States of America

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www.agcchem.com
Visit our website for compliance information and industry certifications.

VISIT US AT BOOTH 116

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CableBuilder - Software for Cable Design, Costing & Quoting

CableBuilder Enterprise was born out of the demand within the wire and cable industry to simplify the complex management of design. It enables you to seamlessly manage product data through the workflow milestones of design, quotation, ordering, quality assurance and ERP integration.

The software enables significant productivity gains through the efficient handling of product data, ensuring continuity and data integrity throughout the cable lifecycle.

CableBuilder enables wire and cable manufacturers to:

- Integrate product data into ERP and MES;
- Replace in-house Excel systems;
- Speed up the design, costing & quotation processes for all cable types;
- Make mass product updates • Improve staff efficiency • Reduce design errors.



CableBuilder

Key Features of CableBuilder Enterprise:

- Fully configurable by the customer • Simple to use software based on web technology;
- Modular software segmented based on functionality;
- Suitable for use in a single or multi-plant environment where alternative BOMs and routings are required;
- Flexibility allows you to deploy the core Designs module and introduce additional modules as need and requirements dictate;
- Compatible with all cable types and constructions;
- Quality Assurance through workflow and versioning with full documentation retention and change history.

CableMES - Manufacturing Execution System (MES) for wire & cable manufacturing

CableMES is a Manufacturing Execution System (MES) specifically for the wire and cable manufacturing industry. It maximizes plant production, improves product quality, manages inventory, and ensures on-time delivery.



CableMES

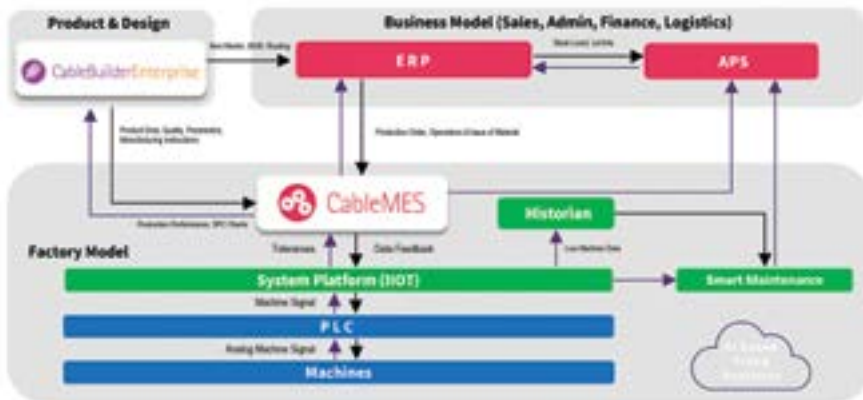
Cimteq by UL Solutions' MES solution is a conduit between the shop floor and the business, and with Cimteq by UL Solutions' extensive industry knowledge, CableMES enables wire and cable manufacturers to monitor, manage and control every aspect of the manufacturing process.

CableMES closes the loop between demand and supply to make sure quality products are made right the first time, every time, and with minimum resource consumption.

CableMES sits between ERP and shop floor machines

CableMES leverages the global scope and scalability of AVEVA™ System Platform (previously Wonderware) for data acquisition by easily and cost-effectively connecting to any compatible shop floor device.

CableMES integrates into your ERP system with real-time data transfers in both directions, keeping the business in sync with the shop floor at all times. CableMES integrates seamlessly into CableBuilder Enterprise, Cimteq by UL Solutions' flagship cable design software. All the product, process and machine data that is managed by CableBuilder Enterprise is available to CableMES to ensure product is produced to the correct specification.



Cimteq by UL Solutions, Booth 431
www.cimteq.com

PRODUCT SHOWCASE

Clinton Support Phone App

The **Clinton Instrument Company**, specialists in spark test technology for the wire and cable industry and inventor of the high frequency sine wave spark tester, is pleased to announce the release of a new mobile application to streamline customer service, sales, and repair functions in an easy to navigate app that can be accessed directly from Clinton's website as well as downloaded to popular handheld devices. We call it the Clinton Support App.

At Clinton, we pride ourselves on providing the best customer service in the industry. However, the process for sending equipment back to Clinton for service, calibration, or repair can often be cumbersome, requiring emailing back and forth, and sometimes several phone calls to gather the relevant information. This new application will allow the user to send the required information directly to Clinton's customer service staff. Once the customer registers with the application, all relevant customer information will be sent with each service request, eliminating the need for back-and-forth phone calls to gather everything necessary for the best possible service.

Simply input the unit's serial number, choose from a drop-down list of common service request items, add notes or photographs to alert our repair department of the nature of the issue and the application will prompt the user with shipping instructions and hit send! A repair tag will be auto generated at Clinton, and we will be ready to provide service as soon as the unit is received in our facility.

Future revisions of the app will include product information, sales, and application support. The phone application will be launched September 1st, 2023. We will be demonstrating the application as well as showing our latest unit, the IT-30B Impulse dielectric tester, at IWCS in Orlando, FL. Come visit us at booth No. 305 to see the application running at our stand, then download it onto your phone.

The Clinton Support Phone App will soon be available on the Apple App Store and the Google Play Store. www.clintoninstrument.com

THE NEW CLINTON SERVICE APP

- ACCELERATED REPAIRS**
The ultimate companion for streamlined and efficient repair services! While not mandatory, this cutting-edge app significantly accelerates the repair process, ensuring you get your unit back sooner than ever.
- EASY CONTACT**
Streamline communication with our app! Effortlessly reach us for any inquiries, support, or to receive a quote. Enjoy easy access to our responsive customer service team, making connecting with our company a breeze.
- BROWSE OUR PRODUCTS**
Discover an effortless way to explore our wide range of products with our user-friendly app. Seamlessly browse through our catalog, check details, and find what you need.

Clinton
INSTRUMENT COMPANY

Visit us at IWCS
Booth 305

CONTACT US TODAY
clintoninstrument.com



RUBBER COMPOUND SOLUTION

COMPANY PROFILE

Seesun polymer with more 20 years development history has been specializing in design and producing high grade of polymer composite material applying for multiple industrial applications for Chinese and international market.

Among its branch of product lines and their sorts of applications, those made for power cable industry have taken much vital position with this company. The different technical demands from the cable working environments have been well addressed by the relevant products solutions. Such as normal silicone composite compound, calendared silicone sheet with reinforced sorts of fabrics and the fire & high temperature-resistant series containing of silicone sheet/layer, fire-resistant polyolefin. Etc.

Presently, Seesun has been supplying many reputable customers among this industrial, which are like Nexans, Prysmann and other key cable manufacturers globally.

Delesun Inc was wholly owned company by Seesun registered in USA exclusively for the American market and it has the full supports in terms of technical and production from its parent company and it has its targets on exploring and providing good products solutions and services to the markets in America directly and be with options of local collaboration for production and trade partners.

High performance products features

- ✓ High temperature resistant silicone compound for EV application.
- ✓ Fire resistant silicone compound for fire isolation working condition.
- ✓ Flame-retardant silicone compound in compliance with VW-1.
- ✓ Special silicone compound in compliance with EN50382
- ✓ Oil resistant performance compound.
- ✓ FDA Grade compound.
- ✓ EPDM & CPE COMPOUND.
- ✓ EVM & NBE COMPOUNDS.
- ✓ FIRE RETARDANT isolation wrapping sheet.

✉ sale@delesungp.com

☎ +15409980700

🌐 www.delesungp.com

WELCOME TO OUR BOOTH:229

PRODUCT SHOWCASE

Compact High-Output Air-Cooled UV LED Curing System

Excelitas Technologies® Corp. is a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions to meet the illumination, optical, optronic, sensing, detection and imaging needs of our OEM and end-user customers.



Excelitas' OmniCure® AC9 Series utilizes a compact high-output air-cooled UV LED design and advanced front-end optics to achieve high-peak irradiance for greater flexibility in a variety of wire, cable, and optical fiber applications. The AC9 series features a patented process that controls the output of individual UV LED modules to provide exceptional uniformity over the entire curing area, even in configurations where multiple UV LED heads are joined together to increase the curing area. The flexibility to achieve wider curing areas in a variety of customizable lengths enables manufacturers to improve throughput without compromising on performance. Featuring a replaceable outer window assembly for added protection and ease of maintenance, the AC9 Series provides over 40,000 hours of LED lifetime.



The OmniCure® AC9300 curing system is ideal for cable marking and ribboning. With a peak irradiance over 14 W/cm^2 the AC9300 provides fast uniform curing at long working distances.

The OmniCure AC9225-F UV LED curing system is designed specifically for fiber coating and coloring applications, delivering high peak irradiance over 20 W/cm^2 to optimize performance at high process speeds. With its high output and efficiency, the AC9225-F system minimizes power consumption and offers up to 60% energy savings compared to traditional arc lamp systems, with no compromises in line speed.

Excelitas Technologies® Corp., Booth 212 • www.excelitas.com

PRODUCT SHOWCASE

When you are searching for the best way to mark your wire and cable, you need a company that will focus on your unique needs. A company with a talent for understanding your processes and the resources to create practical solutions. Since 1952, **Gem Gravure Co, Inc.** has been providing superior printing technology for jacketed wire and cable as well as wire harness.

It started with GEM's original patented process for gravure marking wheels and expanded to continuous ink jet (CIJ). Messages went from static to variable. While contact markers and wheels remain a high-speed solution for many customers, ink jet coding is GEM's strength. GEM is the exclusive representative for **KBA-Metronic** in the United States, Canada and the borders of Mexico. KBA-Metronic is based in Germany. The KBA-Metronic alphaJET® printer is one of the most reliable, eco-friendly ink jet printers available. A solvent recovery system is built into each alphaJET unit, reducing make up consumptions to low eco-friendly, budget-friendly rates.

GEM ink jet inks range from heavy pigmented opaque to soft pigmented to dye-based inks. This range allows customers to select bright opaque codes, codes resistant to automotive solvents or dye-based codes that resist transfer. GEM's staff of expert chemists design fluids specifically for the needs of the customer. A full line of low VOC and VOC exempt inks are available.

Visit Gem Gravure in Booth 131



Gem Gravure Co. Inc.

112 School Street

Hanover, MA 02339, USA

Tel: +1 781 878 0456

Fax: +1 781 871 3264

Email: info@gemgravure.com

Website: www.gemgravure.com

PRODUCT SHOWCASE

Guill Tool & Engineering is the global leader in extrusion tooling. Single and multi-layer dies for extrusion wire and cable assemblies of all types. Die carts and accessories, too.

All Guill products are designed, engineered, manufactured, assembled and fully tested in our factory, located in West Warwick, Rhode Island. We actively partner with extruder manufacturers, and we sell worldwide through our network of reps.

Standard and custom designs are available to meet your requirements, from fine gauge wire for electronics up to automotive harnesses, fiber optic and undersea cable.



Guill

Guill Tool & Engineering

10 Pike St., West Warwick, RI 02893, USA

Contact: Raymond Masse • Email: rmasse@guill.com.com

Website: www.guill.com

PRODUCT SHOWCASE

The mission of **Huestis Industrial** is to develop, manufacture and market reliable, cost effective industrial equipment. This mission is supported by the company's dedication and commitment to quality. Each individual employee, at every level, takes responsibility for the company's success by respecting and understanding each other's role and its impact on Huestis customers. Our success is dependent on delivering the highest quality product at an affordable price to meet the customer's full expectation.

Air Wipes

Enclosures

Take-Up Stands

Adjustable Payoff Stands

Shaftless Payoff Stands

Buncher Payoff Stands

Cable Jacket Strippers

Spooling/Coiling Equipment

Cold Pressure Welding

Length Meters



Huestis products have earned a reputation for dependability and rugged design. This success is a result of practical, innovative engineering and extensive in-house machining and assembly facilities including the most current CNC turning, milling, drilling and automated machining equipment.

Visit Huestis Industrial in Booth 200

HUESTISINDUSTRIAL
making it possible™

Huestis Industrial

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Bristol, RI 02809-0718 USA

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F: +1 401 253 7350

Toll-Free: +1 800 972 9222

E-Mail: sales@huestis.com

Web Site: www.huestisindustrial.com

PRODUCT SHOWCASE

FEP Resins for Wire and Cable Insulation & Jacket Material

Niflon® FEP resins, with UL/RoHS/REACH/ISO/FDA certificate, are widely used in wire and cable such as Cat5e/6/6A CMP cable, high temperature cable, automotive wire, down hole cable, communication cable etc. MFR and applications of partial FEP grades are as follows:

Product	MFR (g/10min)	Strength (≥Mpa(Psi))	Elongation (≥%)	Applications
EW-221	4.1-8	25.0	330	Film, jacket and thick insulation
EW-321	8.1-12	25.0	330	Jacket, insulation for wire and cable
EW-511	20.1-36	18.0	280	High speed extrusion for thin wire and cable
EW-611	36.1-44	19.0	290	Higher speed extrusion for thin insulation for wire and cable
EW-521	20.1-36	22.0	320	High speed extrusion with better strength, mechanical and dielectric property
EW-621	36.1-44	20	320	Higher speed extrusion with better strength, mechanical and dielectric property



Jinhua Yonghe
 Fluorochemical Co., Ltd.
 Booth 322 • www.qhyh.com
 Tel: +86-579-83186709
 Email: yonghe_gas2@qhyh.com

Niflon®

耐氟隆

PRODUCT SHOWCASE

Lloyd & Bouvier, Inc. is committed to offering uncompromising quality equipment for the wire and cable industry, New, Used or Rebuilt, with competitive pricing and unmatched service.

Founded in 1989, Lloyd & Bouvier, Inc. offers over 200 years of combined experience in the Wire & Cable industry. The company provides fabrication of New Machines as well as Rebuilding and Brokerage services, offering best know-how and service in the industry. The facility in Clinton, MA houses the main offices and a well-equipped and staffed machine shop for fabricating new machines, repairing, upgrading and retrofitting used machinery to today's standards.

Lloyd & Bouvier's primary products consists of New, Used, Refurbished and Reconditioned wire and cable equipment, from items such as payoffs, take-ups, capstans, cablers, stripers, and Wardwell braiders, to complete lines for extrusion, cabling, respooling, taping, wire drawing, and specialty applications.

- Each new or rebuilt machine is tested in-house before shipment.
- A complete line of induction pre-heaters is available, as New or Rebuilt.
- Fully staffed electronics, mechanical and fabrication departments provide customers with the latest technology and expertise.
- Complete rebuilding services for Wardwell 16 and 24 carrier braiders are available, with an extensive inventory of quality new or used parts on hand at all times. Ask about our Independent Capstan Drive which uses a touchscreen for on the fly pick count changes, eliminating the need for change gears.

Lloyd & Bouvier management, sales and engineering personnel with varied experience in the Wire & Cable industry can provide customers with the ability to identify and offer optimum solutions for any unique equipment needs.

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1250 mm Dual Reel Take-Up



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PRODUCT SHOWCASE

Curing System for High-Speed Draw Tower

The Phoseon™ Fiber Curing System offers an ideal solution for high-speed fiber draw towers. The system consists of a high intensity UV LED light source, which cures the coatings protecting the glass fibers, along with a Fiber Reflector Unit (FRU) to direct the UV energy around the circumference of the fiber. The lamp and reflector are optimized for curing fiber and wire, with improved thermal management and reduced fan noise compared to earlier generations.



The system's enclosure is designed for ease of installation on the draw tower, with multiple mounting points on the top, bottom, and sides of the lamp. Additionally, the integrated mounting thru-bolts are reversible and feature a detent to prevent hardware from falling when working at height. Alignment bushings take the guesswork out of indexing the system to the draw line.

The patented reflector is housed in its own enclosure, which utilizes toolless removal for cleaning and maintenance. Fans force air through the reflector housing to keep temperatures nominal during operation. Mounts are available for users who wish to install quartz tubes, which contain coating spatter and increase the useful life of the reflector assembly.

Other applications include the curing of wire coatings, and textile fibers.

In February 2023, **Phoseon™ Technology** was acquired by **Excelitas Technologies® Corp.**, a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions.

Phoseon™ Technology
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<https://phoseon.com/>



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Unique **packaging innovations** for cables up to 0.50" (13mm) diameter.



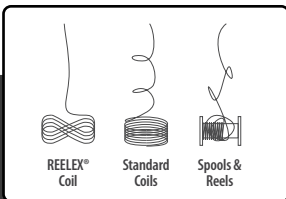
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It Starts with a Figure-Eight

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Patterson, New York, USA

IWCS Booth 128

www.REELEX.com

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PRODUCT SHOWCASE

TEC was formed in the summer of 1986 in Leominster, Massachusetts and has been providing quality machines to customers ever since. Thermoplastics Engineering Corporation is a trusted supplier of Extruders, Cablers, Respoolers, Payoffs and Takeups, and many other types of Wire, Cable, Extrusion, and Fiber Optic machinery. We create standard and custom machinery to your specifications using experience and a knowledgeable staff of industry professionals. Our staff of experienced mechanics, engineers, electricians, programmers, and machinists are capable of building quality machinery, and our sales team is eager to assist you in selecting the correct machines for your application. Our overall goal is to help you find the best solution to your production needs. TEC has designed components for Wire and Cable, Fiber Optic, Tubing and profile Extrusion markets. Whether you need complete extrusion or cabling lines, need to add an individual piece of equipment to existing line, TEC will find the right solution for you. Products include:

EXTRUDERS – VERTICAL EXTRUDERS, HORIZONTAL EXTRUDERS, WATER RECIRCULATING/COOLING

CABLERS – SINGLE-TWIST, DOUBLE-TWIST, ROTATING CRADLE, DOUBLE-TWIST TWINNERS

PAYOFFS/TAKEUPS – PINTLE/SHAFT TYPE, MULTI-STATION RESPOOLERS

DANCER/ACCUMULATORS – VERTICAL & HORIZONTAL ACCUMULATORS, BELT PULLER CAPSTANS, BELT WRAP CAPSTANS, SINGLE/DUAL WHEEL CAPSTANS, EXTENDED WET/DRY CAPSTANS

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PRODUCT SHOWCASE

IWCS Booth 205



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WIRE & PLASTIC

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**LEADER IN SECOND-HAND EQUIPMENT FOR THE
WIRE, CABLE, AND OPTICAL FIBER INDUSTRY**



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specialty resins, compounds and additives for vinyl compounds, primarily stabilizers and plasticizers. The group also provides compounds formulated from polyolefin (PO), thermoplastic polyurethane (TPU) and thermoplastic elastomer (TPE) polymers. Products made from these materials find functional value in our every-day lives from underground pipes to wallcovering and flooring, communications cables, interior automotive parts, various consumer goods and healthcare and food contact products. The business group supplies Orbia's downstream businesses and a global customer base.

www.alphagary.com

Booth 101



Cable Components Group, LLC (CCG) is a leading provider of components and compounds to the wire &

cable and fiber optic industries, as well as specialty extrusions for high-temperature harsh environment applications. With 25 extrusion lines and 4 compounding lines, CCG's growth can be attributed to its ability to produce crosswebs, tubes, coated filaments, multifilaments, and specialty compounds that provide: superior dielectric properties, high operating temperature, outstanding flame-retardancy, and light-weighting through chemical foaming technology.

www.cablecomponents.com

Booth 201



We are a world leader in titanium technologies, fluoroproducts, and chemical solutions. We are a new company with over 200 years of history, created from the DuPont performance chemicals businesses.

www.chemours.com

COMMSCOPE®

CommScope is a global leader in connectivity solutions for communications networks. We provide infrastructure solutions for wireless, business enterprise, residential broadband and carrier wire line networks with industry-leading brands such as Andrew®, SYSTIMAX® and HELIAX®. Founded in Hickory, North Carolina more than 30 years ago, CommScope and its worldwide team of more than 13,000 employees create infrastructure solutions for communications networks in more than 130 countries.

www.commscope.com

Orbia's Polymer Solutions business group and businesses Vestolit and Alphagary provide polyvinyl chloride (PVC) general resins,

CORNING

With more than 160 years of science and engineering knowledge, Corning Incorporated creates keystone components for high-technology systems in consumer electronics, mobile emissions control and life sciences. Our Optical Communications segment delivers connectivity to every edge of the network, from optical fiber, cable, hardware & equipment to fully-optimized solutions.

www.corning.com



Covestro LLC is part of the global Covestro business, which is one of the world's largest polymer companies. With its innovative products, processes and methods, the company helps enhance

sustainability and the quality of life in many areas. The main segments served are the automotive, construction, wood processing and furniture, as well as electrical, electronics, and household appliances industries. Other sectors include sports and leisure, cosmetics, health and the chemical industry itself.

The company is committed to becoming fully circular and aims to become climate neutral by 2035 (scope 1 and 2). Covestro generated group sales of around EUR 18.0 billion in fiscal 2022. At the end of 2022, the company had 50 production sites worldwide and employed approximately 18,000 people (calculated as full-time equivalents).

www.covestro.com

Booth 318



Dow, an Official Materials Innovation Sponsor of IWCS, has been a respected supplier of telecommunications insulation, jacketing and FOC component materials for over 40 years. Using our versatile lineup of AXELERON™ Telecom Cable Compounds and deep understanding of material science, we partner with others throughout the value chain to translate unmet end-user needs into innovative and high quality solutions that help support sustainability efforts. As the global demand for connectivity continues to grow and evolve, we're both thrilled and appreciative to be part of this exciting industry.

www.dow.com



ADVANCED MATERIALS

Huber for almost four decades has been a trusted supplier of alumina trihydrate (ATH), magnesium hydroxide (MDH) and engineered molybdate compounds. We are the leading global supplier of halogen-free fire retardant additives offering the broadest product line to exceed the most demanding requirements of wire and cable compounders and producers. Our technical and commercial expertise is the foundation to developing innovative treated and untreated products and solutions that meet the exacting requirements for each application. In 2016, we acquired the Martinswerk mineral flame retardants and specialty chemical businesses of Albemarle Corporation. This acquisition complements Huber's existing portfolio of halogen-free fire retardants and smoke suppressants while expanding its geographic presence and global reach and marks the fourth and largest acquisition to the Huber fire retardant additive business in the last eight years. In 2015, Huber purchased the Safire® nitrogen and phosphorous flame retardant technology from Floridienne Group and Catena Additives. In 2012, Huber bought the specialty hydrate flame retardant business from Almatris and in 2010, the Kemgard® flame retardant and smoke suppressant business from Sherwin-Williams. Along with our global presence and comprehensive array of fire retardants and smoke suppressants, Huber is dedicated to outstanding technical service, fire retardant testing and customer care.

www.hubermaterials.com

Booth 100



The Lapp Group first established in Stuttgart, Germany has been a manufacturer of Wire and Cable since the company's inception over 50 years ago. Since that time, the Lapp Group grown through their worldwide locations to accommodate customers on a global scale. As evidenced by their several testing laboratories the Lapp groups dedication to research and development has established them as the global innovator to the wire and cable industry. Lapp products are used throughout the world in automotive plants, machine tools, instrumentation, medical electronics, telecommunications, robotics, industrial automation, transportation, general industrial control systems, and numerous other applications.

www.lappgroup.com



OFS is a world-leading innovator, manufacturer and provider of infrastructure solutions for communication networks and specialty fiber optic products. Our company is creating future-ready and sustainable solutions for customers in such areas as telecommunications, medicine, industrial networking, sensing, aerospace, defense, and energy. OFS is guiding light for a better life through the limitless possibilities of fiber optics.

www.ofsoptics.com

Huber for almost four decades has been a trusted supplier of alumina trihydrate (ATH), magnesium hydroxide (MDH) and engineered molybdate compounds. We are the leading global supplier of halogen-free fire retardant additives offering the broadest product line to exceed the most demanding requirements of wire and cable compounders and producers. Our technical and commercial expertise is the foundation to developing innovative treated and untreated products and solutions that meet the exacting requirements for each application. In 2016, we acquired the Martinswerk mineral flame retardants and specialty chemical businesses of Albemarle Corporation. This acquisition complements Huber's existing portfolio of halogen-free fire retardants and smoke suppressants while expanding its geographic presence and global reach and marks the fourth and largest acquisition to the Huber fire retardant additive business in the last eight years. In 2015, Huber purchased the Safire® nitrogen and phosphorous flame retardant technology from Floridienne Group and Catena Additives. In 2012, Huber bought the specialty hydrate flame retardant business from Almatris and in 2010, the Kemgard® flame retardant and smoke suppressant business from Sherwin-Williams. Along with our global presence and comprehensive array of fire retardants and smoke suppressants, Huber is dedicated to outstanding technical service, fire retardant testing and customer care.



Teknor Apex features a full range of thermoplastic insulation and jacketing compounds for wire and cable applications - Apex® flexible and semi-rigid PVC for appliance wire, building wire and control cables; Fireguard® low smoke, highly flame retardant PVC for copper and optical fiber data cables; Flexalloy® PVC elastomers for robotics, industrial cables, EV charger cables and flexible cords; Halguard® low smoke, halogen free flame retardant compounds capable of meeting applicable UL and EU CPR requirements for infrastructure cables. Our portfolio includes one of the broadest ranges of UL Recognized wire and cable compounds in the industry.

www.teknorapex.com

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Prysmian Group is world leader in the energy and telecom cable systems industry. With almost 140 years of experience, sales exceeding €11 billion (pro-forma as of 31.12.2017), about 30,000 employees in over 50 countries and 112 plants, the Group is strongly positioned in high-tech markets and offers the widest possible range of products, services, technologies and know-how. It operates in the businesses of underground and submarine cables and systems for power transmission and distribution, of special cables for applications in many different industries and of medium and low voltage cables for the construction and infrastructure sectors. For the telecommunications industry, the Group manufactures cables and accessories for voice, video and data transmission, offering a comprehensive range of optical fibres, optical and copper cables and connectivity systems. Prysmian is a public company, listed on the Italian Stock Exchange in the FTSE MIB index.

www.prysmiangroup.com



A global leader in applied safety science, UL Solutions transforms safety, security and sustainability challenges into opportunities for customers in more than 100 countries. UL Solutions delivers testing, inspection and certification services, together with software products and advisory offerings, that support our customers' product innovation and business growth. The UL Certification Marks serve as a recognized symbol of trust in our customers' products and reflect an unwavering commitment to advancing our safety mission. We help our customers innovate, launch new products and services, navigate global markets and complex supply chains and grow sustainably and responsibly into the future. Our science is your advantage.

www.ul.com

PLATINUM SPONSORS



Epic Polymer Solutions is ISO 9001:2015 certified and specializes in the extrusion of fluoropolymers. We

extrude monofilaments, profiles, tubing, and various coated substrates including wire, fiber-optic buffer coatings, and cable jackets. We manufacture products for Wire & Cable, Aerospace, Filtration and more. Products are manufactured to each Customer's particular engineering specifications. Our knowledge and capabilities also allows us to create custom solutions to fit Customer needs.

www.epicpolymersolutions.com



Lloyd & Bouvier Inc.

Lloyd & Bouvier, Inc. is your complete source for wire and cable manufacturing machines. Let our mechanical, electrical, engineering and quality control staff review your

application specifications. Each new or refurbished machine or system is designed to the customer's specific requirement.

www.lloydbouvier.com

Booth 313



Masterchem Solutions was established in

1979. Previously named Master Adhesives, we entered the Fiber-Optic Cable Industry by securing a patent to produce Mastergel in 1993. Within 30 years, we have become a world leader in the development and manufacture of thixotropic gels and an array of flooding and filling compounds for use in multiple cable designs. With an ISO 9001 Certified Quality Program, we are in a position to utilize our expertise and equipment to produce or toll manufacture a variety of specialized adhesives, cleaners and uniquely engineered liquid products for cable manufacturers and many other industries.

www.masterchemsolutions.com

GOLD SPONSORS



At BASF, we create chemistry – and have been doing so for over 150 years. We offer a wide range of Thermoplastic Polyurethanes (TPU) and Engineering Plastics

that stand up to the harsh demands of wire & cable applications. Our portfolio includes TPUs, polyamides, polysulfones and Ultradur® PBT. Elastollan® TPU, well-suited for high performance cabling when it comes to high operating temperatures (up to 150C continuous use), abrasion and wear resistance, low smoke/halogen free flame performance, and weatherability, is just one of our many solutions. By combining customer driven innovation with a global presence and technical expertise under one roof, BASF Performance Materials delivers the right solutions for our customers' challenges.

wireandcable.basf.us

Booth 309



Carris is a highly efficient manufacturing company with a participatory business culture that has been competing successfully in the domestic and

global markets for over 70 years. Carris strives to be a good citizen in the communities in which it operates and has long been a committed steward of the environment. At Carris, customers come first, and its collaborative culture translates to creative solutions and responsiveness to changing needs. The proof of Carris' value is demonstrated by the trust that its customers place in Carris as their business partner of choice.

www.carris.com

Booth 206



Copperweld is an American bimetal manufacturer with over 100 years of time-tested performance, but that's only part of our story. We became a

leader in the wire and cable industry by engineering wire differently. We work closely with customers to optimize the performance and reliability of our conductors to perfectly suit a given application.

Need a conductor that is stronger or lighter or theft deterrent? Bimetallic conductors can be designed to be all of that and more. For over a century, Copperweld's metallurgical expertise and value-engineering approach have produced innovative solutions that have revolutionized industries.

Today, Copperweld has global reach. Our world-wide network of facilities and partners manufacture products originating from Copperweld's operations located in the heart of the midsouth, USA.

www.copperweld.com



Daikin America was established in 1991 and today is the world's

foremost developer and manufacturer of fluorochemical products (FEP, PFA, ETFE). While our foundation is global, our relationships are local. At Daikin America, our technical service and support staff in 30 locations in TX, FL, NY, CA, KY, MN, AL, MA are committed to meet your existing and future needs. We are your personal contacts and suppliers in the United States.

www.daikin-america.com



Fiber Optic Center, Inc., (FOC), is an international leader in distributing fiber optic components, equipment and supplies and has been helping customers make the best cable assemblies in the world for over two

decades.

www.focenter.com

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GRAHAM ENGINEERING

The global standard in single screw extrusion, Graham Engineering Company (GEC), has over 50 years of experience meeting and

exceeding our customers' needs. GEC has provided machinery solutions in over 70 countries across many forms of extrusion. The company's solutions comprise standard and custom extrusion solutions in single screw extruders, feed screws, extrusion systems, and specialized turnkey systems for the wire & cable industry. GEC is a privately held company located in York, PA.

www.grahamengineering.com

Booth 122



Indore Composite Pvt Ltd is a world leader in cable protection and strengthening solutions. Having 4 manufacturing sites, 850+

employees, and over 25 years of experience, Indore can deliver superior quality FRP rods, ARP rods, Yarns, Tapes, and Gels to support Fiber optic and Power cables across the globe.

Driven by innovation, quality, and a customer-centric approach Indore is reshaping the future of cable protection for the growing demands of FTTH, 5G, Data Centres, and Green energy transmission.

To know more about the company, and their sustainability goals, please visit the website below.

www.indore.co.in



M. Holland is a leading international distributor of thermoplastic resins, materials, and services, providing suppliers with

the most strategic channels to market, offering innovative sourcing and supply chain solutions to our clients, and helping people lead rewarding careers. M. Holland's Wire and Cable group offers a wide variety of plastic compounds, gels, tapes and copper conductors to meet the wire and cable industry's diversified needs, in many cases providing a single-source solution to its clients. The company's in-house engineers have expertise across a wide range of services, specializing in application development, material selection, mold design, and troubleshooting. Since 1950, a deep commitment to personal relationships has formed the core of M. Holland's heritage, its culture, and its vision. Headquartered in Northbrook, Illinois, the company has over \$1 billion in annual sales and sells to more than 4,000 customers annually.

www.mholland.com

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Nabaltec

Nabaltec is a manufacturer of environmentally friendly, flame-retardant fillers and special oxides. These highly specialized products have been developed using aluminum hydroxide and aluminum oxide as a basis, and they are sold primarily for two market segments, namely "Functional Fillers" and "Specialty Alumina". To provide one example, flame-retardant fillers are used in cables and electronic devices. In case of fire they can delay its spread and suppress the development of environmentally harmful and unhealthy smokes and fumes. Special oxides are used e.g. for various machine components as well as in the refractory industry. Nabaltec manufactures at three locations: in Germany and in the USA.

www.nabaltec.de
Booth 319



Proton Products is a leading manufacturer of instrumentation and control equipment for use in industrial production. We continue to expand our product range with affordable, innovative technology which provides our customers with solutions that improve production capabilities and efficiency.

www.protonproducts.com
Booth 107



Since 1976, the unique REELEX figure-eight coiling method

has provided manufacturers with a tangle and twist-free packaging alternative to reels, spools and standard coiling methods and has become widely accepted as the standard package for "last-mile" lengths of low-voltage cabling. REELEX Packaging Solutions develops and supports the REELEX system by designing and manufacturing coiling and packaging equipment, ancillary equipment such as dancers, accumulators and payoffs, developing new packaging innovations and providing service and support around the world.

www.reelex.com
Booth 128

TEIJIN

Teijin Aramid is the global leader of high performance aramid

fibers. Our Twaron® fiber offers the strongest connection for optical fiber cables. Its unrivalled dimensional stability enables cables that are stronger and more durable. Teijin Aramid invented Twaron® in 1972. In 2021 we were the first company to make aramid fibers circular. Our top priority is to create a fully sustainable, circular supply chain. Visit our website to learn more about how our innovations enable a better future.

www.teijinaramid.com



Yangtze Optical Fibre and Cable Joint Stock Limited Company (also known as 'YOFC') established in Wuhan, Hubei

Province in May 1988 is a technologically innovative enterprise specializing in optical fibre preforms, optical fibres, optical fibre cables and integrated solutions, and also a global leading supplier in these areas.

www.yofc.com

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Our high-performance fluorochemicals provide cutting-edge solutions to an ever-changing world.

www.agcchem.com | **Booth 116**



As a leading supplier of solutions to the wire and cable industry,

Arkema's High Performance Polymers are commonly used for applications where extreme protection and reliability are required. A wide range of materials are available including Kynar® PVDF, Rilsan® polyamides, Pebax® elastomers, Orgalloy® alloys and Kepstan® PEKK thermoplastics. Key characteristics of these outstanding polymers include high temperature resistance, low flame and smoke properties, chemical resistance, low temperature flexibility, low shrinkback and ease of processing. Arkema is a leader in bio-based, sustainable materials for wire and cable applications including halogen-free flame retardant materials.

www.kynar.com | **Booth 207**



Cimteq by UL Solutions (Cimteq) is the market-leading software provider for the global wire and cable manufacturing industry. Powered by state-of-the-art technology, Cimteq's innovative software

and support services enable manufacturers across the globe to be more profitable through improved productivity and streamlining of business and manufacturing processes.

Cimteq's design and costing software, CableBuilder Enterprise, is now used in hundreds of factories worldwide to simplify the complex management of cable-design data, from the initial design concept to delivering the full bill-of-materials directly to the ERP system. Additionally, CableBuilder Go was developed specifically for single-factory and smaller wire and cable manufacturers. Cimteq further supports wire and cable manufacturers to effectively plan, manage and control every aspect of the manufacturing process with the Cable Manufacturing Execution System, CableMES. Demonstrations of all Cimteq software programmes can be arranged. Visit the Cimteq by UL solutions booth, where you can speak to experts James Concannon and Chris Huntly.

www.cimteq.com | **Booth 431**



Heraeus Noblelight's specialized UV curing systems offer an innovative combination of high efficiency optics and

modular design for the most effective, reliable, and consistent curing for high speed, 24/7 production environments.

We offer systems for optical fiber draw towers, coloring and coating, high speed inkjet marking of cable jacketing, and other applications on plastic extrusions, FRP strength members, wire, cables, and more.

The "smart" LightHammer® Mark III offers real-time system performance monitoring for improved troubleshooting. The Semray® UV PC6003 UV LED curing system retrofits easily and cost effectively, typically a 2 year payback. Both offer lower total cost of ownership.

www.heraeus-noblelight.com | **Booth 331**



Kuraray America is a global leader in specialty chemical, fiber and resin production.

With top-of-the-line research and production facilities located in Houston, Texas, and a vast network of supply from around the world, Kuraray leads the industry in specialty chemical, fiber, resin, and elastomer products. Producers of high performance Vectran™ LCP fibers since 1990.

www.kuraray.com



SICCET USA is the North American sales, distribution and service

center of SICCET SRL, an Italy-based manufacturer of thermocouple cables, RTD cables and high temperature special cables. SICCET USA strives to be a trustworthy partner for the US temperature sensors market and high temperature special applications.

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www.siccetusa.com



WONDERFUL

Wonderful Hi-Tech Co., Ltd. engages in the manufacture and sale of electronic wire and cable. Its products include fiber to the home solution, copper systems, local area network cables, coaxial cables, ultra fine wire, hook-up wire, power supply cord, computer cable, and automotive wire.

www.wontex.com



Wire & Cable Technology International (WCTI) is the "Official Magazine of the IWCS", and we publish several IWCS articles throughout the year as well as the annual IWCS preview article and the annual IWCS supplier exhibition directory. WCTI is a bimonthly technical magazine for manufacturers, processors, distributors and users of all types of wires, cables, wire harnesses and cable assemblies.

Readers of the print and digital editions are located in more than 100 countries, and additional publications include a monthly business and market newsletter called the OVERVIEW, and the annual WCTI Buyers' Guide. www.wiretech.com | **Booth 130**



CCCA is a major resource for well researched, fact-based information and education on the important issues, technologies and

structured cabling products impacting the current and future needs of the building network and cabling infrastructure. CCCA is proactive in supporting and participating in codes and standards bodies and other trade, industry and safety organizations, which affect the quality, performance and societal needs of the structured cabling infrastructure.

www.cccassoc.org



Connector Supplier is the only publication that focuses exclusively on interconnect solutions, including connectors, cable assemblies, sensors, and

antennas. This longtime industry resource informs electronics professionals about connectivity technologies, spotlighting the products, companies, markets, trends, organizations, and personalities that shape the interconnect industry. Connector Supplier reaches more than 75,000 readers every month through its newsletter, website, and other special publications.

www.connectorsupplier.com



CRU offers unrivalled business intelligence on the global metals, mining and fertilizer industries through market analysis, price assessments, consultancy, and events. The 9th CRU World Optical Fibre & Cable Conference will be held in Jakarta from 24-26 October 2023, hosted by Yangtze Optical Fibre and Cable Joint Stock Limited Company (YOFC). The event will give leaders of the optical fibre and cable sector the chance to address peers on the role that the industry will play in the global recovery. With the accelerated trends towards connected lifestyles that rely on strong communications networks employing optical fibre and cables, the industry is ever changing.

www.crugroup.com
worldopticalfiberconference.com



EuroWire and Wire & Cable ASIA are international

magazines for the wire and cable industries. Published six times per year, they cover technological developments concerning wire and cable manufacturing methods, production machinery and processing equipment. Every issue reports on special areas of wire and cable manufacturing. EuroWire and Wire & Cable ASIA enjoy an increasing and unrivaled readership across Europe, the Americas, Asia, and internationally, being understood by a wide audience of wire and cable professionals.

www.read-eurowire.com
www.read-wca.com
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Submarine Telecoms Forum is the leading digital platform for submarine cable industry insights,

offering a dedicated e-magazine, daily news feed, and streaming video content. Serving over 150,000 users across 125 countries, we provide comprehensive submarine telecom cable and network operations information, all free of charge. Stay informed and connected with Submarine Telecoms Forum.

www.subtelforum.com
Booth 404



The Vinyl Institute (VI) is a U.S. trade association representing the leading manufacturers of vinyl,

vinyl chloride monomer, vinyl additives, and modifiers. The VI works on behalf of its members to promote the benefits of the world's most versatile plastic, used to make everything from PVC piping to flooring, roofing and vinyl siding. The vinyl industry in the United States employs over 350,000 highly skilled employees at nearly 3,000 facilities and generates an economic value of \$54 billion.

www.vinylinfo.org



The Vinyl Sustainability Council (VSC), founded in 2016 in partnership with the Vinyl Institute, is a council created to advance the vinyl industry's efforts in addressing sustainability. The VSC is a collaborative platform for companies, organizations and other industry stakeholders to come together to create a sustainable development path for the industry.

www.vantagevinyl.com/vinyl-sustainability-council



WCISA® Wire and Cable Industry Suppliers Association® - is a nonprofit corporate membership

association of North American suppliers of machinery, materials and accessories used for making all types of wire and cable. Members are based in or have an established subsidiary in North America. WCISA's mission is to promote its member's products and services by providing its members with representation, networking/social opportunities and services at wire and cable trade events and conferences. WCISA is active in wire and cable trade events and conferences throughout the world, in varying capacities, including as an exhibitor, supporter, sponsor and outing organizer. WCISA also awards to scholarships to employees and dependents of member companies as well as partner associations.

www.wcisaonline.org



The Wire Journal International (WJI) is the

leading magazine for the wire and cable industry. Published monthly, WJI is written for executives, engineers, technical and sales professionals, and purchasing agents engaged in the manufacture of ferrous and nonferrous wire and cable; electrical wire and cable; fiber optic cable; and formed and fabricated wire products. Coverage includes management, marketing and manufacturing methods and technical developments related to production of wire and cable products, industry news, trends and events, personnel appointments, and patent updates.

wirenet.org/wire-journal-international
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Wire & Cable Manufacturers' Alliance, Inc. (WCMA) is a non-profit

corporate business association serving manufacturers of low to high voltage electrical, electronic, and fiber optic wire and cable with established manufacturing operations located in North America. Corporate membership also includes industry suppliers, service providers, affiliated companies and organizations that support the industry, also having significant North American based operations.

www.wcmainc.org



The Wire Association International is a not-for-profit association with 1,800 individual members in 50 countries. The association serves the educational needs of the wire and

cable manufacturing industry through a variety of products and services. WAI manages the Interwire Trade Exposition and the WAI Operations Summit & Wire Expo and publishes the Wire Journal International and the Wire Journal International Reference Guide.

www.wirenet.org
Booth 429



Wire World is the global leader for information, news, events and suppliers to the wire & cable

industry. Since 1995, Wire World has brought information to makers of wire and cable and provided opportunities for suppliers to connect 24/7. Press releases highlight projects, company highlights, equipment, personnel, events and more from around the globe. With thousands of users from every continent, there is a great reason to be connected to the industry with Wire World.

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