



Cable & Connectivity Industry Forum™

by **IWCS**

2026 CALL FOR TECHNICAL PAPERS

Participate in the premier event for new technologies in cable & connectivity materials, products, processes and applications.



Gain International Recognition



Publish Your Research



Help Advance the Industry



November 1–4, 2026

**Gaylord Palms Resort & Convention Center
Orlando, Florida, USA**

ABOUT IWCS

IWCS was started in 1952 by key government and industry representatives devoted to the development of improved wires and cables for military applications. The first symposium was called "Symposium on Technical Progress and Communication Wire and Cables." Presently, IWCS organizes the Cable & Connectivity Industry Forum, a technology event with nearly a thousand international attendees. This event facilitates the exchange of information about product, material and process innovation for cabling and connectivity solutions. On average, IWCS publishes on average 100 technical papers annually—all of which are archived to aid ongoing industry research and education. Committed to developing industry professionals and students, IWCS provides networking opportunities, awards scholarships, and hosts a professional development program and webinar series.

2026 IWCS CABLE & CONNECTIVITY INDUSTRY FORUM OVERVIEW

The 75th annual IWCS Cable & Connectivity Industry Forum takes place November 1–4, 2026 at the Gaylord Palms Resort & Convention Center in Orlando, Florida, USA. The cornerstone of the Forum is the prestigious Technical Symposium, which allows authors of technical papers to share their research as a presentation or poster display. Additional event components include a Plenary Session Luncheon with influential Keynote presentation and an awards ceremony, Supplier Exhibition™, Industry Trend Discussions, Executive Session, Professional Development Courses, and many networking opportunities.



TECHNICAL PRESENTATIONS



POSTER SESSION



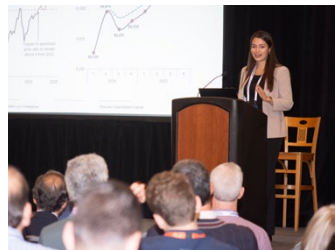
PANEL DISCUSSIONS



SUPPLIER EXHIBITION™



PLENARY LUNCHEON & KEYNOTE



EXECUTIVE SESSION



PROFESSIONAL DEVELOPMENT COURSES



NETWORKING RECEPTION

WHY SUBMIT A TECHNICAL PAPER?



International Recognition

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.

TWO UNIQUE OPTIONS TO SHARE YOUR TECHNICAL PAPER AT IWCS 2026



- 20 minute presentation
- 5 minute question & answer period
- Formal seated audience
- Visual display: Microsoft Powerpoint
- One presenting author per paper
- Comfortable presenting in English
- Final Paper in Proceedings and Archives
- Opportunity to receive a prestigious award

- Casual one-on-one conversations with people who stop learn about your research
- Poster is on display for two days
- Visual display: Poster with graphics
- One or more authors can stand by poster to answer questions during the 2-hour Poster Session
- Final Paper in Proceedings and Archives
- Opportunity to receive a prestigious award

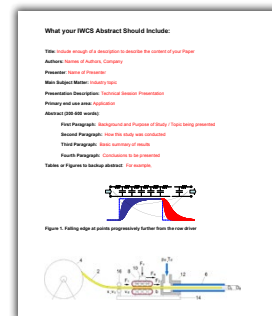
HOW TO SUBMIT AN ABSTRACT

Submit an abstract that describes your intent for a Technical Paper. Abstracts are reviewed and selected by a committee of industry experts shown on page 7. Authors of accepted abstracts are invited to submit a Final Technical Paper to be published and presented as a Technical Symposium Presentation or during the Poster Session at the IWCS Forum.

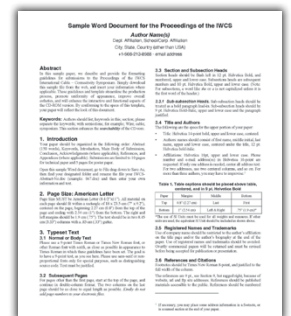
Refer to suggested topics on the following page.

Abstracts must be in English and be submitted as an MS Word® or PDF document. **The 300-500 word abstract should include:**

- Authors and preliminary Technical Paper title
- Primary conclusion or result
- Background—why work was undertaken
- Pertinent details of significant findings
- One or two illustrations



ABSTRACT EXAMPLE



FINAL PAPER TEMPLATE

The IWCS abstract example and templates for Final Papers and Posters can be downloaded from the IWCS website at iwcs.org/present


Important Deadlines

Submit Technical Paper & Poster Abstract	Example at iwcs.org/present	Friday, April 10, 2026
Invitations to present shared with authors	Email	Friday, June 5, 2026
Accept/decline invitation to present	Email	Friday, June 26, 2026
Draft Final Paper	Template at iwcs.org/present	June-October, 2026
Submit Final Paper*	Submit at iwcs.org/upload	Friday, October 9, 2026
Submit final PowerPoint Presentation or Poster	Submit at iwcs.org/upload	Friday, October 23, 2026



If you have questions about the submission process, please contact Michelle Melsop, IWCS Senior Operations Manager, at mmelsop@iwcs.org or by phone at +1.571.265.3657

Additional information about the IWCS Forum, abstract submission requirements, and selection criteria is available at: iwcs.org/present









SUGGESTED TOPICS – *Additional topics are welcome!*

 **Hot Topics!** Rapid technological advancements impacting the telecom, power, and cable manufacturing industries to be discussed at IWCS 2026.



MATERIALS & ADDITIVES

- 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
-  • Liquid Cooling for Cables, Chips, and Servers
-  • End-of-Life Recycling Technologies for Cables
 - » Collections, Segregation, Logistics
 - » Processing / Cable Component Separation
 - » Supply Chain Circularity (Reuse in Cable Compounds & Components)
-  • Sustainable Materials & Product Innovations
 - » Bio-Based & Renewable Polymers
 - » Low-Carbon / Reduced Carbon Footprint Compounds
 - » Mass Balance & Certified Sustainable Materials
 - » Recycled Content Formulations (PCR/PIR)

DATA CENTERS & AI

-  • Hyperscale, Enterprise & Edge Data Centers
-  • Optical Fiber vs Copper Solutions
-  • Architecture & Topology (Top of Rack; End of Row; Structured Cabling)
-  • Transformation to Generative AI Systems and Quantum Computing Capabilities
-  • Hollow Core & Multi-core Technology for AI Data Centers
-  • Novel Cable Technology to Power AI Data Centers
-  • Ultra High-Density Cables with Reduced Diameter Optical Fibers
-  • Liquid Cooling for Cables, Chips, and Servers



COPPER CABLES

- Copper Conductors
- Performance Modeling, Measurements & Testing
- Copper Cable Accessories
- Data Communications / PoE
- EMC / Single Pair Ethernet
- Sensor / Signal / Transmission Cable
- Medium / High Voltage Power
- Energy Transition
 - » AC to DC
 - » Demand Challenges and Solutions
-  • Twinax Cable Assemblies
-  • New Technologies, AI, and Machine Learning for Copper Cable Manufacturing



CODES & STANDARDS

- Safety
- Performance
- Environmental Impact / Eco-Labels



ENERGY INFRASTRUCTURE

-  • Renewable Energy Cabling (Offshore/Onshore Wind, Solar)
-  • Smart Grid




ADVANCEMENTS IN COPPER & OPTICAL CONNECTIVITY

- 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
-  • Hyperscale Connectivity
-  • Very Small Form Factor (VSFF) and Expanded Beam Optics (EBO) Connectorization Technology





FIBER OPTIC CABLES

- Microduct
 - » Air Blown
 - » Splicing Technologies
 - » Tooling & Testing
- Optical Cable / Fiber Design and Characterization
 - » Novel Cable Designs
 - » Multi-Core / Hybrid Cables
 - » Micro-Cables
 - » FTTx / FTTH and Installations
- Multi-Core & Specialty Fiber
 - » Optical Fiber Applications
- High-Density Ribbon & Loose Tube Cable
 - » Flexible Ribbon
 - » High Density Cable
- Ultra Low-Loss Optical Fibers
- Multimode Fiber
- Next-Generation Specialty Fibers
- Reliability Measurements / Process Control
-  • New Technologies, AI, and Machine Learning for Optical Fiber and Fiber Optic Cable
-  • Ultra High-density Cables with Reduced Diameter Optical Fibers

NETWORK INFRASTRUCTURE

- Cable Measurement, Reliability and Maintenance
- Broadband Connectivity
- Wireless Signal Transmission
-  • 5G Cabling / Network Technology
-  • Smart cities and Buildings
-  • Middle Mile

CONVERGENCE OF POWER & DATA

-  • Hybrid Cables
-  • Power over Ethernet
-  • Thermal Bundle Management
-  • Digital Electricity™ / Fault Managed Power
 - » Fault Managed Power Delivery
 - » Digital Electricity / NEC® Class 4

WHO SHOULD SUBMIT A TECHNICAL PAPER?

If your work is of interest to the cable and connectivity industry, you should submit a Technical Paper Abstract. IWCS accepts submissions from all industry professionals, with no limitation of job title or level of experience. Examples of past authors' roles include, but are not limited to: Engineering, Research & Development, Product Management, and Academia in a variety of market and industry segments relevant to cable products, materials, processes, and applications.

REPRESENTATION OF RECENT AUTHORS

INTERNATIONAL PARTICIPATION

More than 20 countries including: USA, China, Japan, United Kingdom, India, Mexico, Canada, Brazil, Italy, Germany, Switzerland, **and more!**



JOB FUNCTION

Scientist	██████████
Research/Development	████████████████████
Production/Quality	██████
Product Management	██████
General Management	██████
Engineering	██████████████████
Executive	██████
Consulting	██████
Business Development	██████
Student/Other	██████

INDUSTRY SEGMENT

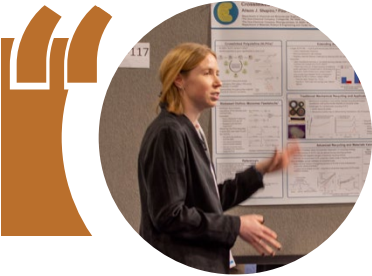
Academic	██████████
Automotive	██████
Power	██████
Aerospace/Defense	██████
Data	██████████
Electronic	██████████████
Specialty Industrial	██████
Telecom	████████████████████

AFFILIATIONS

- | | | | |
|---|--------------------------------------|--|---|
| • 3M | • FiberQA | • Marmon Electrical | • Sumitomo Electric Lightwave |
| • AESA Cortaillod | • Fiber Optic Center | • MC Communications | • Superior Essex Communications |
| • AFL | • Fujikura Limited | • MSP (Material Service and Processing) | • Taymer International Inc. |
| • AGC Chemicals | • Furukawa Electric | • Nabaltec AG | • Technetics Group |
| • Akron Polymer Systems | • Gaon Cable | • Nanjing Wasin Fujikura Optical Communication LTD | • Technical Horsepower Consulting LLC |
| • Arkema | • Gendon Polymer Services | • Nest Technical Services, Inc. | • Teknor Apex Company |
| • Bahra Cables Company | • Graz University of Technology | • Nippon Telegraph and Telephone Corporation | • Telecom Egypt |
| • bda connectivity GmbH | • Harbin Institute of Technology | • Nippon Telegraph and Telephone East Corporation | • TKH Group |
| • Belden | • Hengtong Optic-Electirc Co.,Ltd | • OCC Corporation | • The National Center for Nanoscience and Technology |
| • Berk-Tek | • Heraeus Noblelight | • OFS | • Trafikverket - Swedish Transport Administration |
| • Birla Carbon | • HFCL Group | • Oledcomm | • Twentsche (Nanjing) Fibre Optics |
| • Borealis AB | • Hitachi Cable America | • OptEM Engineering | • U.S. Air Force |
| • BV Twentsche Kabelfabriek TKF | • Hopland MarinInstal | • Orbia Polymer Solutions - Alphagary | • UL Solutions |
| • Cable Components Group | • Huawei Technologies Co., Ltd | • Orion Engineered Carbons SA | • University of Central Florida |
| • Centre for Advanced Laser Manufacturing, School of Mechanical Engineering | • Hubei University of Technology | • Osaka Electro-Communication University | • University of Delaware |
| • Chemours Company | • Huber Engineered Materials | • Panduit Corporation | • University of North Carolina at Charlotte |
| • Chiba Institute of Technology | • Hyesung Cable & Communication Inc. | • Plumettaz | • US Conec |
| • Chiral Photonics | • Indore Composite Pvt. Ltd. | • Polycab India Ltd | • Virginia Tech Department of Materials Science and Engineering |
| • Chroma Color Corporation | • InnoVites | • Proterial Cable America | • Walsin Lihwa Corp. |
| • Cimteq Ltd | • iPool Srl | • Prysmian | • Wandtec Optronics Co., Ltd. |
| • Clemson University | • Japan Fine Coatings Co., Ltd. | • Reutlingen University | • WaveLab Engineering AG |
| • CommScope | • j-fiber GmbH | • Runaya Private Limited | • Wuhan Research Institute of Posts and Telecommunications |
| • Condux International | • Jiangsu Hengtong Optic-Electric Co | • SABIC | • Xaloy |
| • Cord Data | • JSR Corporation | • SACO AEI Polymers | • Yangtze Optical Fibre and Cable Joint Stock (YOFC) |
| • Corning Optical Communications | • LaserLinc, Inc. | • Senko Advanced Components | • Zhongtian Technology Fibre Optics Co.,Ltd. |
| • Covestro | • Lectromec | • SI Group | • Zhongtian Power Optical Cable Co., Ltd |
| • Daikin america, Inc. | • Legrand | • State Key Laboratory of Optical Fiber and Cable | |
| • De Montfort University | • LEIBINGER | • State University Of Campinas (UNICAMP) | |
| • Delta Tecnic | • Leoni | • Sterlite Technologies Limited | |
| • Dow | • Leviton | • SubOptic Foundation | |
| • DSM Functional Materials | • Lightera | | |
| • Fiberhome Communication Technology Co., LTD | • LS Cable & System | | |
| • FiberNext | • Lubrizol Advanced Materials, Inc | | |
| | • M. Holland | | |
| | • Maillefer Extrusion OY | | |

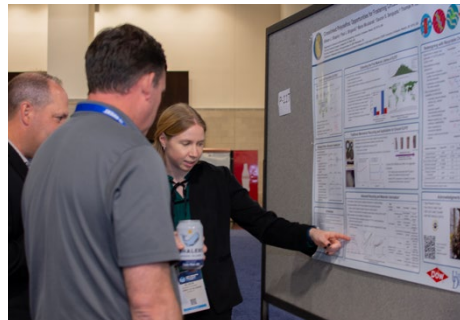
STUDENT PRESENTATIONS

IWCS encourages engineering students with individual or group research projects to submit an abstract to be considered for a Technical Paper presentation or poster display at the upcoming IWCS Forum. Students are encouraged to take advantage of this opportunity to gain experience discussing their work while networking and discussing professional opportunities with some of the world's leading international companies in cable manufacturing, materials science, telecom, and related industries. Students and professors should contact Rebecca Dippel, IWCS MarCom Manager, at rdippel@iwcs.org for more information.



During the IWCS event, I received a lot of great questions about my poster and corresponding research paper, and they turned into very interesting discussions.

- Alison S., Chemical & Biomolecular Engineering, PhD Candidate, University of Delaware



WHO DO YOU KNOW WITH RELEVANT RESEARCH? SHARE AN INVITATION!



Opportunity to receive complimentary full-access registration to the 2026 IWCS Forum

Share the IWCS Call for Papers with your colleagues throughout the industry. When your colleagues submit their abstract, they will be asked to enter your name as the referral source. The person who refers the most authors of Technical Papers will receive complimentary full-access registration to the 2026 Cable & Connectivity Industry Forum.

*May not name yourself as your own referral source

TECHNICAL PAPER AWARDS



The IWCS Symposium Committee awards the best Technical Paper, Poster, and Outstanding Presentation. Submit a paper for the opportunity to win one of these prestigious awards!

Congratulations to our 2025 Technical Paper Award Recipients!

- **Kitts-Kingsley Award for Best Presentation:** Chad Walker, Laserline, USA, "How Traditional Measurement Techniques in Continuous Casting and Rolling Applications Can Exhibit Perfect Ovality Yet Fail Circularity Criteria"
- **Award for Outstanding Poster Paper:** Cheryl Sayer, Xaloy, USA, "Additive Manufacturing for Corrosion Resistant Extrusion Barrels"
- **Jack Spergel Memorial Award for Outstanding Technical Paper:** Roman Shubochkin, Lightera, USA, "Core Identification and Geometry Specifications"

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Questions?

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