



Copper Development
Association Inc.

Copper Alliance

Membership Benefits



President's Message

Welcome to the Copper Development Association Inc. (CDA)... As the face of the copper industry in the consuming markets of the United States and Canada, we represent the industry supporting both fabricators and producers. As the president and CEO of CDA, I lead the staff team in working with our leadership, member companies and the copper community to advance the interests of our industry. Membership provides the opportunity to be part of an industry-wide market development and technical service program so large and diverse that no one company would be prepared to undertake it alone. To achieve our goals, CDA's highly experienced professionals use their broad and specialized knowledge of copper and its alloys in conjunction with their extensive technical, engineering, architectural, metallurgical and communications expertise to address the significant issues facing our industry.

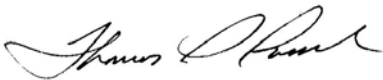
CDA represents organizations involved in all aspects of the copper value stream, from upstream producers, fabricators and manufacturers, to the engineering, market research and consulting firms that serve the industry. More importantly, we exercise this representation on your behalf in the downstream market, educating and influencing decision makers, from your customers to their customers and beyond, in copper intensive markets. We provide a mix of technical, scientific, educational, market development and advocacy support from staff and expert consultants including architects, engineers, metallurgists, toxicologists and environmental specialists.

You are part of North America's most critical and dynamic industries—copper. What you do has a direct and significant impact on our economies and standard of living. Our company is committed to securing the future of copper and all of the societal benefits it provides, but we need your support and participation as a member of CDA.

In fact, every company that has a stake in that future should consider becoming a member of CDA. We look forward to representing your interests.

To learn more about CDA, visit: www.copper.org/about/members.

Sincerely,



Thomas Passek
President & CEO
Copper Development Association Inc.



ABOUT CDA

Copper Development Association Inc. (CDA) is a U.S.-based, not-for-profit association of the global copper industry, influencing the use of copper and copper alloys through research, development and education, as well as technical and end-user support. CDA is committed to promoting the proper use of copper materials in sustainable, efficient applications for business, industry and the home.

CDA is the foremost resource on copper and copper alloy applications in North America. As a U.S.-based, non-for-profit organization with global reach and impact, CDA facilitates collaboration among North American copper producers, copper product fabricators, and key decision makers. Through research, development, education as well as technical and end-user support, CDA is committed to promoting, protecting and defending the proper use of copper materials in sustainable, efficient applications for business and industry.

We are a team of highly talented, dedicated and professional individuals committed to promoting the successful use and application of copper materials and to promoting benefits of reliability, durability, sustainability, and antimicrobial properties. Most certainly, we encourage corporate and environmental responsibility.

Significantly, CDA is also a member of the Copper Alliance, an international network of trade associations, whose common goal is to work with their members to defend and grow markets for copper, based on its superior technical performance and contributions to a higher quality of life. CDA promotes the goals of our members while serving the needs of the users, purchasers, designers and specifiers of copper and copper alloy products, by providing the following:

Community

Membership creates opportunities for industry networking at CDA-sponsored meetings and events among producers, mills, OEM fabricators, regulators and specifiers. CDA membership also offers a neutral and legal forum to interact with industry colleagues. You and your staff can build valuable personal and professional relationships by participating in various CDA councils, work groups and committees that not only help advance the industry but are good for your business.

Market Intelligence


Supporting the goal of expanding the competitive use of copper in new and traditional markets, CDA provides access to the latest domestic market data on copper consumption—by end-use markets and products—as well as domestic/global market quantification reports. It also establishes a venue for member companies to determine market research needs that best support members' strategic plans and industry programs.

Market Development/ Market Defense

Industry Affairs

By maintaining active representation in professional societies and technical committees, such as (US) ASTM, AFS, NACE, NSF, AWWA, ASME, SAE, NEMA, NEC, IAPMO, ICC, NFPA, NSF - (CAN) CSA, MCAC, RAIC, CanSIA, OAA, AIBC, CANWEA, and NBCC, CDA works to develop new markets and defend existing ones.





Some benefits of involvement in these organizations are:

- Positioning to present and advance the use of copper to appropriate specifiers and purchase influencers;
- Monitoring and keeping members updated on potential opportunities or threats;
- Supporting copper's position when confronted with competition from plastics, steel, aluminum and other interests;
- Broadening international market reach through CDA's representation in the Global Copper Alliance, by providing insight into global strategies and emerging markets.

Government Affairs

From meetings with members of the Office of the White House to participation with Health Canada, CDA conducts sophisticated governmental outreach on topics ranging from general association issues to program specific initiatives. In fact, CDA's reputation for conducting and providing cogent research studies and for representing the interests of copper is so respected that government departments, such as the US Department of Energy, seek input from CDA as they rewrite codes, standards and regulations.

CDA establishes regulatory influence to

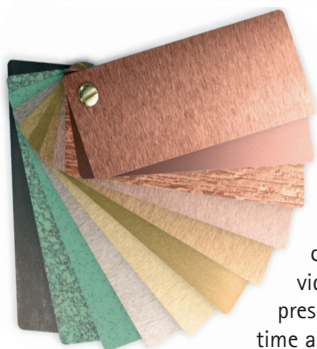
- Address copper related issues in all relevant codes, standards, and regulatory forums that impact the use of copper or competing products;
- Provide accurate information to regulators;
- Educate members on potential effects of regulations;
- Open avenues of communication between industry and regulators to provide accurate information on the use and application of copper products and to reduce the burden of industry compliance.

Membership offers direct involvement in industry-wide issues management; access to Members of Congress through CDA initiatives; opportunity for leveraged influence of state-specific legislations; and professional support for environmental issues.

Marketing Communications

The association's broad communications program includes extensive outreach to the trade and, as appropriate, to the consumer media on every program within CDA.

Member company outreach is further expanded through recognition, inclusion and indirect referral in



trade shows, seminars, and scientific forums; event signage, press releases, presentation materials and articles; and Copper.org's suppliers' database and the member company list.

CDA provides exclusive access to an extensive CDA marketing collateral library. Members can access case studies, business case reports, life cycle analyses, technical papers, brochures, videos and presentations that are packaged and ready for client presentation, reducing the need for members to invest their own time and financial resources to develop materials themselves.

CDA has developed a rich digital and social media program to encourage conversations and engagement with the various audiences relevant to CDA's mission. LinkedIn, Twitter, YouTube and the ThinkCopper blog all share the common goal of positioning ourselves as the thought leader in the industry.

Technical Services

CDA provides comprehensive technical response to member and market queries and facilitates ongoing knowledge-sharing through the use of the CDA technical inquiry system database available on the copper.org website. We initiate joint research and development programs to influence the use of copper products and systems. Member companies enjoy exclusive and/or early access to findings of CDA technical research projects as well as access to CDA/ICA Intellectual Property such as MicroGroove™, and motor and aquaculture technologies. The Technical Services Group also provides member-specific and industry-wide end-market technical representation and support through response to technical as well as crisis issues.

Focused Product Marketing

The vast potential that copper offers has created the ongoing need for more in-depth research, marketing and focus on specific product categories and their markets. Over the 50 years of CDA, these programs have concentrated on different areas at different times. Currently there are four product councils, focused on the following:

- Electrical Products
- Tube and Fittings
- Rod and Bar
- Strip, Sheet, and Plate

Each of these programs is responsible for continuously building relationships with end-use customers such as architects, engineers, contractors, builders, developers, facilities owners and infection control specialists to promote and support the use of copper and copper alloys through educational seminars and meetings, design and technical installation assistance, as well as targeted trade show participation.



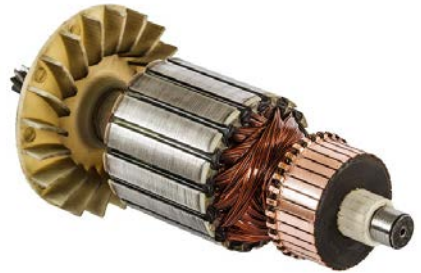
Electrical Products

The Electrical Products council supports sustainable energy; telecommunications; and electrical power applications, including power quality. The group engages in policy and regulatory activities to emphasize and increase the important role that copper plays in energy efficiency and electrical system reliability in both traditional and renewable energy markets.

The public affairs component involves monitoring and interfacing with key congressional energy committees, Department of Energy and state utility energy commissions on rulemaking, standards development and legislative activity. Building alliances with industry and policy leaders in the energy field and conducting market research to identify market trends, drivers and threats to copper are also included in this program.

Assuring the proper installation of essential electrical applications, such as 911 emergency lines, data centers, broadcast systems and computer networks is accomplished through educational seminars, case studies, trade shows and direct outreach.

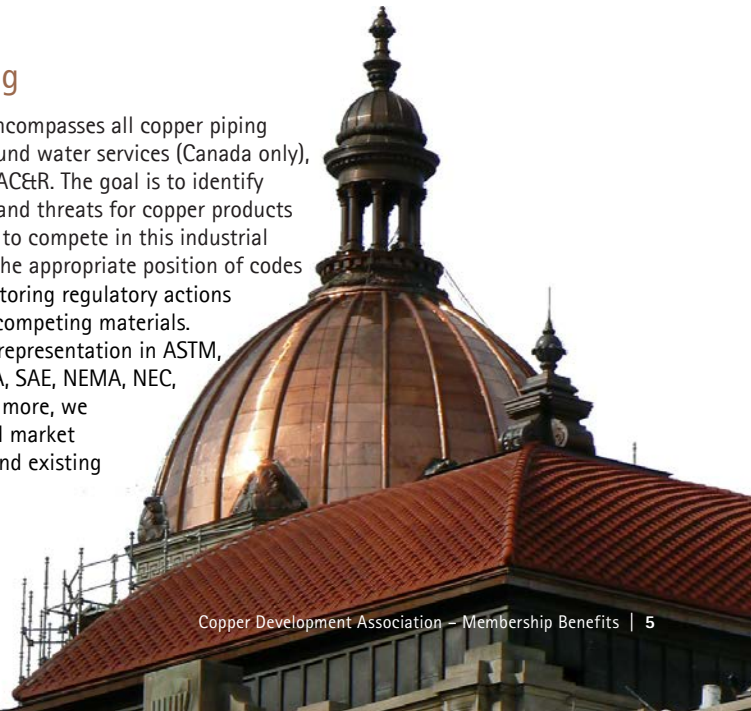
CDA supports development of higher minimum efficiency standards for copper motors, transformers and electrical systems as these standards result in increased efficiency and increased copper use. Furthermore, CDA drives and supports specification and use through direct interaction with large utility and industrial facilities through educational sessions and direct audits of plant systems.



Tube and Fitting

This product council encompasses all copper piping applications, underground water services (Canada only), green building and HVAC&R. The goal is to identify market trends, drivers and threats for copper products and develop strategies to compete in this industrial market. CDA ensures the appropriate position of codes and standards by monitoring regulatory actions related to copper and competing materials.

By maintaining active representation in ASTM, AFS, NACE, NSF, AWWA, SAE, NEMA, NEC, IAMPO, ICC, NFPA and more, we effectively help expand market opportunities and defend existing markets.



Rod and Bar

Machined products are the sole focus of this product council. Key initiatives are maintaining market share amid issues such as no-lead alloy fabrication, off-shore manufacturing and stringent codes and standards. CDA coordinates technical and market data and conducts high speed machining testing to educate rod and bar purchasers on topics such the benefits of minimal lead content in brass rod. Active participation in regulatory groups, such as the Environmental Protection Agency (EPA), the National Sanitation Foundation (NSF), and America Waterworks assure that copper is represented and that our technical expertise is realized.

Strip, Sheet and Plate

Architectural applications, green building, antimicrobial copper and automotive applications are the focus of the Strip, Sheet and Plate product council. The group maintains face-to-face interaction with end-use customers—architects, engineers, contractors, builders/developers, facilities owners, car manufacturers, and infection control specialists—to promote and support the use of copper and copper alloy products.

The goals of this council are to identify market trends, drivers and threats for member company and copper industry use in strategy and business development within the end uses most important to this group: construction and automotive applications. Targeted messaging that proactively promotes copper building construction products through a focused marketing communications program which stresses copper's longevity, reliability, robust performance, aesthetics, antimicrobial benefits and its role in sustainable construction form the basis of the architectural component. The program also develops technical data and messaging to position copper building products within construction industry trends, such as the development of the copper Life Cycle inventory (LCI) data which facilitates the use of copper in sustainable design and green building projects.



Antimicrobial Copper

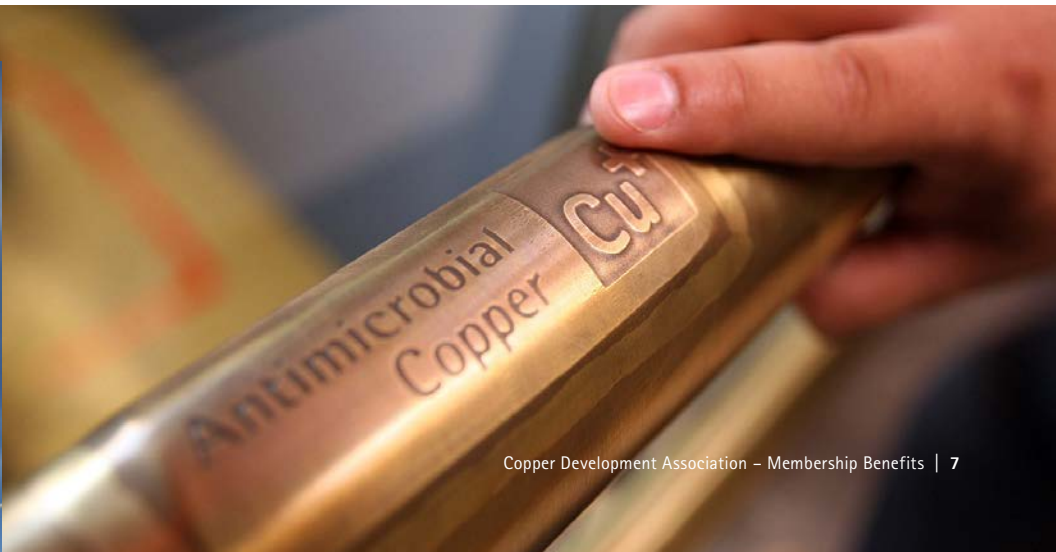
The fact that copper possesses the ability to kill bacteria has been known since the earliest times. Ancient civilizations used copper vessels to rid their water of bacteria. But because anecdotal evidence is not sufficient to move markets, CDA launched the Antimicrobial Program in order to turn this “fun fact” into scientific fact.

Armed with results from a U.S. Department of Defense study, CDA has played and continues to play a pivotal role in advancing the development and installation of antimicrobial copper. CDA's work in obtaining Environmental Protection Agency (EPA) registration for solid surface antimicrobial copper has meaningful results for members. They are eligible to obtain EPA registration based on CDA's registration; downstream customers can, in turn, sell and promote copper's antimicrobial capabilities to kill bacteria under member registration; and it provides member access to the scientific evidence and promotional collateral for their use in marketing antimicrobial copper products.

The potential impact that Antimicrobial Copper can have on public health is wide and far-reaching. CDA delivers broad promotion of copper alloys' antimicrobial benefits and available product solutions to healthcare influencers including healthcare professionals, healthcare executives, infection control specialists, architects, facility managers, designers, specifiers, owners and even the general public.

Expansion of Antimicrobial Copper use in public transportation, educational institutions, and the hospitality industry is accomplished through focused marketing efforts: trade show participation; conferences; speaking engagements; webinars; use of case studies; and the development and promotion of special projects. These efforts are supported by credible technical data developed by CDA.

Through its ongoing meetings with government and regulatory officials, CDA seeks and manages the antimicrobial brand to assure that everything being marketed in the U.S. under this umbrella is being done in accordance with prescriptive regulatory/legal requirements and the highest quality standards of the copper industry.





North American Copper in Architecture Awards™

Cu Copper Development
Association Inc.
Copper Alliance

Each year, CDA sponsors *The North American Copper in Architecture Awards* recognizing and promoting North American building projects for their outstanding use of architectural copper and copper alloys. The awards program showcases a wide range of projects, all of which highlight craftsmanship, attention to detail, and architectural vision.



CDA Member Companies

Advanced Copper Alloys
Aereus Technologies Inc.
AFC Cable Systems Inc.
Ampco Metal Inc.
Aurubis Buffalo Inc.
Aviva Metals
BHP
Cerro Flow Products LLC
Cerro Wire LLC
Chase Brass & Copper Company LLC
Chicago Extruded Metals Company LLC
Codelco (USA) Inc.
Concast Metal Products Company
Draka Cableteq USA
Drawn Metal Tube Company
Encore Wire Corp.
Freeport McMoRan

Glencore Ltd.
Heyco Metal Inc.
Howell Metal
Hussey Copper
IMC Metals America LLC
Kearny Smelting & Refining Corp.
KME America Inc.
Luvata Appleton LLC
Mac Metals Inc.
Materion Brush Performance Alloy
Mueller Industries Inc.
National Copper & Smelting Company
Nexans Canada Inc.
nVent Thermal LLC
Olin Brass
PMX Industries Inc.
Rea Magnet Wire Company Inc.

Revere Copper Products Inc.
Rio Tinto/Kennecott Utah Copper Corporation
RSCC Wire & Cable LLC
SDI LaFarga LLC
Sloan Valve Company
Small Tube Products
Southwire Company
T-Drill Industries Inc.
The Okonite Company
Thompson Traders Inc.
Virtus Precision Tube
Weldaloy Products Company
Wieland Copper Products LLC
Wieland Metals Inc.

Copper Development Association Inc.
7918 Jones Branch Drive, Suite 300
McLean, Virginia 22102
www.copper.org



**Copper Development
Association Inc.**
Copper Alliance

