



## 2<sup>nd</sup> Quarter, 2009

### **BUILDING CONSTRUCTION**

- An Australian Housing Industry Association market survey for copper tube and Smart Wiring for 2009 revealed a modest increase in market share of the copper tube market for cold and hot water, from 35% to 36%, and the copper tube market share in the gas market has grown by 3%, to 75%. The Australian Smart Wiring market for newly built homes has remained stable but with additional growth to a 27% market share achieved in the renovations market. Attitudes of Australian builders towards copper tube are improving and the speed of installation has become a less negative issue.
- ICA China translated and disseminated the leaflet “Connection with Copper,” covering 15,000 electrical designers nationwide, to counteract the promotion of aluminum alloy cable. The leaflet shows the outcome of a related test report on the stability and performance of different connections. In addition, ICA China had several meetings with the regulators of national electric code and successfully got the oral approval from the leading regulatory body that aluminum alloy wire will not be accepted in the revision of national code.
- After several months of discussion and preparation, ICA China received approval from China Power Institute and the regulators of power quality to jointly host two seminars in China in the second half year. The partners will be responsible for inviting governmental officials, informing designers and engineers, and seeking for financial support from power quality equipment manufacturers. It is estimated that cash co-funding from these two seminars will reach \$40k.
- Three leading radiator manufactures decided to convert to produce copper convectors. In addition, including ICA China’s previous partner, Zhengzhou Freedom Radiator Co., four radiator companies have signed an agreement to join the upcoming copper convector design contest and provide about \$35k in cash co-funding.
- ICA China launched the first Chinese Copper in Architecture Awards with support of the European Copper Institute (ECI). In addition, the first Chinese Copper and the Home Awards will be launched in July.
- The Spanish Committee of the European Copper Plumbing Promotion Campaign (ECPPC) has edited two new publications in the series “El Cobre la Elección Profesional.” One, on copper’s role in solar thermal installations, explains copper’s contributions towards maximizing energy savings, quality and security. A second compares the Life Cycle Assessment of copper tubes for drinking water systems versus PEX-Al pipes. This shows that the environmental impact of a drinking water installation using copper tubes is up to 60% lower than with multilayer pipes and fittings.
- The UK Copper Board exhibited at 2009 HIP! EX, an event targeting final year plumbing students and their lecturers, to promote the educational resources available from the UK promotional arm of the ECPPC. 169 students visited the stand to register for the Copper Club and ask for information packages, including one on flame-free fittings technology. Many more took part in the Copper Challenge, to make a figure “8” using short lengths of copper

tube and a selection of push-fit elbows and tees in the fastest time. Running alongside the exhibition was the HIP! Apprentice of the Year competition, where six students were installing test pieces using copper tube and fittings.

- European fabricators are convinced the end-user campaign, supporting the use of copper plumbing in Germany by promoting positive messages to end-user groups, is having a significant impact on their market and seek to continue the campaign.
- ESTEC 2009, the European Solar Thermal Energy Conference, was successfully completed with a strong emphasis by many of the event's speakers on growth in solar thermal in Europe. Solar thermal will benefit from the European Commission's national action plans, which are currently under developed. Other forms of Solar thermal applications were acknowledged, such as Solar cooling, district heating, water treatment including desalination, as being important contributors to the 2020 goals set by the European commission, by the participants. Nigel Cotton of The European Copper Institute (ECI) served as Chairman of the opening ceremony. Nigel, along with Ingrid Keller of the Deutches Kupferinstitut (DKI), also interviewed many conference participants, some of which may be found on [You Tube](#).
- With almost 50 entries from 16 countries, the 2009 European Copper in Architecture Awards revealed an exceptional diversity of projects representing the best in contemporary European architecture. A short list of this year's winners has been published: See [www.copperconcept.org](http://www.copperconcept.org) for details.
- A partnership with Eletropaulo (São Paulo power utility) was signed to develop a case study to implement solar water heaters in 15,000 existing low-income buildings. The Brazilian CDA actively participated in the bidding process, and its involvement led to the specification of copper in these systems.
- Temporary, yet effective, barriers against copper substitution for gas installations has been achieved in Brazil and Mexico in different forums through efforts of the ICA Network. The Brazilian self-regulated advertisement council ordered the discontinuation of false claims by competing materials in advertisements regarding safety in gas systems. In Mexico, the Gas Safety Standardization Committee rejected a substitute materials joined with adhesives for any kind of gas installation.
- An informative brochure about copper's benefits for water and health, originally developed by the Copper Development Centre – Southeast Asia, has been adapted and translated into Portuguese and Spanish for distribution to decision makers in the Latin American building construction community.
- The Casa Segura (Safe House) program was expanded to Bogota, Colombia, supported by 12 stakeholders including the Energy & Mines Ministry, Codensa (Power Utility) and Schneider electric.
- The Peruvian CDA negotiated new co-funding of \$37k U.S. from a number of stakeholders to co-fund different activities in Peru and Colombia.
- In Latin America, a bi-monthly newsletter was created and distributed in order to promote the Leonardo website and power quality (PQ) initiatives.
- Webinars about PQ and Thermal Measurements were held in Portuguese and Spanish language for Latin America countries based on LPQI tool.
- Placed a feature article in *Metal Architecture* (circulation 32,000) focusing on the benefits of using copper's antimicrobial properties for interior building surfaces.
- Published the first biannual edition of Building and Architecture News for 2009, including stories on: the extensive use of mechanically joined copper piping systems in the 50-

building, \$14 billion Las Vegas City Center project; GeoColumn, a new copper-intensive geothermal heating and cooling system; a profile of the new Georgia Tech Nanotechnology building – covered entirely with a perforated copper rainscreen; and a piece on why copper is still a building construction material that we can't live without.

- In the U.S., presented 31 seminars to 473 attendees from 88 individual architectural, engineering and contracting firms on the use of copper in building construction application; presented 13 seminars to 266 attendees from 15 individual architectural and engineering firms on the application of copper antimicrobial touch surfaces.

### **SUSTAINABLE ELECTRICAL ENERGY**

- Drafted a process for Emirates Authority for Standards & Metrology to regulate minimum energy efficiency standards & labels. The board of director of ESMA, representing other ministries, has approved the draft. Now ESMA is empowered to engage all the local stakeholders for this task. The board of director has approved ESMA's to collaborate with China, Korea and others.
- The technical committee (Inter Plant Steel Specification) of Steel Authority of India (SAIL), the largest steel maker in India, approved ICA's recommendation of incorporating EFF1 as minimum buying criteria for the general purpose low tension industrial motors needed in all SAIL plants.
- In India, the Ministry of Power approved the Bureau of Energy Efficiency's (BEE's) mandatory standards and labeling strategy for distribution transformers. The BEE introduced two separate gazettes (which will be enforced from January 2010). These gazettes are Compliance gazette (Minimum Efficiency Performance Standards, or MEPS) and the gazette giving direction to display energy consumption (label). This milestone which will help to achieve ICA's tonnage influence objective of 14,000 tonnes by 2012.
- The Egyptian Ministry of Industry has announced a decree regulating MEPS for distribution transformers in Egypt. ICA worked with Egyptian Organization for Standards & Quality to develop these MEPS. The successful implementation of these MEPS is expected to have additional copper impact of 8,000 tonnes over the next five years.
- The Japanese Cable Manufacturers' Association was held various meetings this quarter during these meetings all stakeholders agreed to draft the new Environmental conductor upsize table to include in the new JCS to make the larger cable size mandatory in Japan. JCMA agreed to pursue is to make this new Environmental Current Table as a global (IEC) standard.
- A large Japanese motor manufacturer has procured copper motor rotor (CMR) samples from V Forge in the U.S. to evaluate the performance targeted for 70kW motors, which will be used for compressors in a large air-conditioner.
- Hosted a regional workshop for South East Asian Power Distribution Utilities to share solutions and put peer pressure to drive home power quality (PQ) messages. 12 utilities from Vietnam, Cambodia, Laos, Thailand, Singapore and Philippines participated in the workshop. This regional Power Quality Workshop has also forged consensus among the participants on an Action Statement to provide directions and chart the next steps to solving PQ problems in power distribution systems.
- The first draft of "Jilin Province Electricity-saving Standard," with content of economic sizing of power cable, high-efficiency motors and transformers, has successfully passed a

review by Jilin Quality & Technology Supervision Bureau.

- Three seminars were held to promote high-voltage differential signaling (HVDS) with single-phase distribution transformers for around 300 people from China Southern Power Grid Company (CSG) and State Grid Corporation of China (SGCC). CSG selected 14 rural areas for a case study with the HVDS application and want to expand the application of single-phase distribution transformers.
- Cooperated with SGCC to launch an energy star program for power utilities and end users to promote high-efficiency transformers and motors, power quality and cable upsizing.
- Three products (CMR, exchange heating, drink machine) provided by ICA China are being displayed at the new energy conservation exhibition of Shanghai Energy Efficiency Center.
- Defended high-efficiency magnetic ballasts against electronic ballasts in the revised national energy-efficiency standard of lighting by rejecting the intention of phase-out magnetic ballast for fluorescent lamps.
- Finished a CMR motor test in hybrid vehicles. CMR helped to improve motor efficiency by 3-5%.
- ECI supported LS Cable, the world's leading wire & cable producer for magnet wire, and the number one wire & cable company in Asia, at its first energy symposium organized as a side event at the Hannover Fair. The symposium, to discuss opportunities for wire & cable in power generation and distribution, attracted an international audience from across the electricity sector.
- Phase 3 of the Ecodesign Toolbox was completed. This comprehensive toolbox integrates power generation, equipment and buildings. It also allows powerful assessments of design options in energy-using systems and clearly demonstrates the environmental benefits of using more copper in energy systems. It is being used by the University of Athens, Codelco, Borealis, Arcelor and FAVI. Siemens has expressed an interest in the Phase 3 Toolbox for its building management systems.
- An informal group of individuals, companies, associations and institutes, which deal with all aspects of Electromagnetic Compatibility (EMC) has agreed to establish a competence center on the website of the German chapter of Leonardo ENERGY. The topics range from the not-yet fully accomplished transition from the 4-wire to a 5-wire installation, past the necessity of a 6-wire cabling, to the use of filtering devices made up out of aluminum, magnetic steel and copper. This group of experts will fill a knowledge reference gap in the German market and, through hosting on the Leonardo ENERGY platform, will profile our network and the copper industry as important experts in the field of EMC.
- A study entitled “The Energy Losses in Distribution Transformers” carried out in Mexico was submitted to CFE and CLyF, (state-owned power utilities), in order to validate the results. Simultaneously, the potential contribution of Procobre on improving energy efficiency in transformers was agreed through program presentations to 12 operational divisions of these companies around the country.
- Based on experiences from the Brazilian slum electrification project, Electrohuila and Electricaribe (distribution utilities in Colombia) have considered offering economic and technical incentives to allow the replacement of electrical appliances and light bulbs in order to save energy. End users would receive a credit line payable through their energy bills. In Mexico, the CFE Center & West Division started a slum electrification pilot project in Acapulco City.

- The second cycle of energy efficiency seminars in the public sector took place in Viña del Mar and Antofagasta in Chile. A total of 120 officers of government procurement sectors attended this initiative organized by País Eficiencia Energética Program, ChileCompras office (Chilean purchasing web site) and ICA/Procobre.
- Gained acceptance of a paper to EEMODS (Energy Efficiency of Motor Driven Systems) on a case history on the use of energy efficient copper motors for a NYCO Minerals facility.
- CDA (U.S.) completed a new CD-ROM on high-efficiency motors and transformers.
- In the U.S., CDA exhibited at the IEEE Electric Machines and Drives conference, and at the Utility Supply Management Alliance annual meeting

### **ORIGINAL EQUIPMENT MANUFACTURE (OEM)**

- In conjunction with the Technology Initiative, a successful technical transfer of heat exchanger knowledge for heat pumps was made with one of the largest heat pump manufacturers in France. Further Technology development was agreed around plate designs and architectural applications.
- Further approaches from OEMs regarding electric motors show their commitment to development of new drivetrains during difficult market conditions for the automotive industry. BMW and Leoni share concerns about work hardening of copper in the wire harnesses for signal wires. At the request of the automotive industry, the Initiative contributes to an alliance supporting the continued use of lead in copper alloys for automotive applications.
- Initiated by ICA, a meeting was successfully held in Guangzhou to establish the China Heat Pump Alliance. More than ten main manufacturers agreed to join the alliance as the foundation members.
- After great efforts of International Copper Promotion Council – India (ICPCI), the notification of regulation by the Bureau of Energy Efficiency towards mandatory labelling for tubular fluorescent lamps, distribution transformers, room air conditioning and refrigerators have been issued on 6th July 2009. The mandatory labelling regulation is going to be starting with minimum energy efficiency ratio of 2.3 at 2010, progressing to 2.7 quickly if our persuasion bears fruit.
- The “see-through” copper tank water dispenser is accepted as a part of the “Energy Saving Home” concept in the new exhibition center which is set up by Shanghai Energy Conservation Supervision Center (SECSC).
- Sponsored by ICA, a heat exchanger conference in Beihai was held for the chemical industry. Lan Zhou Heat exchanger Equipment Co., Ltd, who is one of the largest heat exchanger manufacturers in the chemical industry, expressed their interest to work with ICA to test copper alloy plate heat exchanger (CAPHE) technology in their coming projects, and to introduce CAPHE to the chemical industry.

## TECHNOLOGY

- ICA and the University of Michigan are in negotiations with Exxon Mobil to take over R&D on the copper-based sorbent. Two other companies have requested technology licensing agreements. Introduction of the copper-based sorbent as a product is being planned for 2012.
- An aquaculture cage constructed with UR30 brass netting was deployed in the Gulf of Maine. This is the only permitted aquaculture site in the Northeast USA. The cage was deployed 05 June 2009 and is stocked with cod. To date, performance of the cage is excellent, and there are no structural problems or biofouling issues.
- A new project to develop aquaculture enclosures with copper alloy nets was initiated in China. Under the leadership of the East China Sea Fisheries Research Institute (ECFRI) and ICA, three different types of cages for different sea conditions and fish species will be developed. The project involves the entire supply chain, including materials development and fabrication, design of 3 types of cage system, cage manufacturing, farmers, and regulators. Large scale deployment is anticipated during 2012. This project is a result of the 2008 Asia Call for Proposals.
- Reduced cycle time to 7 seconds for die-casting copper into motor rotors at the Non-Ferrous Technology Development Center, Hyderabad, India. Processing copper at this speed enables consistent, high-quality die-casting.
- Antimicrobial door handles were formed from brass tubing using the Heatform process were manufactured and delivered to FSB, a door hardware OEM based in Germany. These door handles will be used in hospital clinical trials in the U.S. and Europe.

## HEALTH AND ENVIRONMENT

- Annual scientific Program Reviews were conducted by telephone for Health & Environment contractors in Latin America (Centro de Informacao Metal Mecanica-CIMM, Catholic University of Chile, University of Rio Grand do Sol (Br), and Instituto Nacional de Pesquisa da Amazona (INPA-Br)). Achievements in Q209 for the 2008 contracts include:
  - INPA has developed a test version of a Compliance Tool for Copper in Tropical Waters, which will be useful in responding to Sweden's activities in southern Asia to convince governments to adopt strict precautionary water quality standards for copper and other metals.
  - The Catholic University of Chile has developed methods to use seaweeds to monitor copper in seawater, which will be applied to assessing the risks from any copper released from new aquaculture enclosures made from copper alloys.
  - Prof. Adalto Bianchini of the Univ. of Rio Grande do Sol was named the Canada Research Chair at McMaster Univ. by the Government of Canada, in recognition of his ICA-supported studies on the bioavailability of copper in coastal waters. The Chair Appointment is for five years, and includes an annual stipend to support research and teaching on the biology and chemistry of metals, including co-funding of further ICA studies on copper.
- The European Commission's Director General – Environment is carrying on with the implementation of the EU Water Framework Directive (WFD). The commission is therefore revising the methodologies for setting environmental quality criteria. Active discussions took place in the second quarter, especially on the sediment section. The guidance has almost been

finalized and ECI will continue to be actively involved to ensure that the revisions made are appropriate. Additionally, in view of the implementation of the EU WFD, European Commission's DG Environment is deriving a second list of priority substances with EU wide concern for the EU surface waters. Candidate substances are being assessed and the EC now agreed to use, for prioritization purposes, the generic copper PNEC derived in the copper risk assessment ( $7.8 \mu\text{g Cu/L}$ ) instead of the inappropriate predicted no-effect concentration (PNEC) originally proposed by the EC's consultants ( $1.4 \text{ g Cu/L}$ ). The EC will finalize its second priority list by end 2009 and ECI will continue to object on having copper on the EU wide priority list. Several Member States are considering the revision of their copper quality criteria and ECI actively is involved to ensure that these are in-line with the copper risk assessment.

- Sustainable consumption and production plays an important role in many regions in the world and is highly influencing the product stewardship and labeling. Life Cycle Assessment (LCA) is the only recognized supporting tool worldwide and is based on a quality ensured dataset in compliance with the relevant ISO standard requirements. Providing and promoting such a dataset for copper is still the key focus of the Life Cycle Centre (LCC). Its current update project serves to stay in line with competing materials. An internet-based data collection system (SOFI) has been set up and the data collection has been completed. Quality check and assessment are now in progress. The results will be presented for internal discussion in September 2009, before communicating them further to the public.
- EU's implementation of the Global Harmonized System (GHS) for Classification and Labeling:
  - The detailed technical guidance has been finalized and includes a metal-specific environmental chapter. The chapter follows the methods in the copper risk assessment, demonstrating that copper massive forms do not need any environmental classification entry, and may allow for removal of the chronic classification entry now applicable to copper compounds and fine copper powders.
  - ECI data gathering, which began in 2007 with information from 11 companies covering 32 copper concentrates and a few copper ores, now is complete, resulting in:
    - Company-specific questions being circulated in April 2009
    - A user-friendly tool that will assist companies to derive appropriate classification for their specific ores/concentrates was developed by the ECI consultants (EURAS).
    - Proposed strategy and methodologies have been streamlined across mining companies.
    - A GHS Technical Advisory group has been set up, involving experts from Rio Tinto, Anglo-American, Codelco, Freeport McMoRan, Aurubis, and BHP Billiton.
- Met with Chinese Research Academy of Environmental Sciences (CRAES) and Ministry for Environmental Protection (MEP) officials, and successfully signed a memorandum of understanding for regulatory collaboration on the revision of Copper limits in China National Water Quality Criteria.
- Obtained co-funding from the Nickel Institute on China National Soil Quality Standards this August for the acceptance of final results of Metals in Asia project.
- The importance of copper in iron-deficient anemia disease has preliminarily been approved

in our relevant ongoing study.

- Copper exposure study around Yunnan copper mine has been launched.
- A database on current environmental, health and safety (EHS) regulations applicable to copper sector industries in India and the corresponding institutional framework at various levels have been finished.
- ICA's Public Service Brochures have been translated into Chinese been prepared for a better communication with Chinese stakeholders.
- EU Voluntary Risk Assessment dossier being translated into Chinese language for risk management issue in conjunction with Chinese REACH movement.

## COMMUNICATIONS

- ICA Communications utilizes a methodology called Equivalent Advertising Value (EAV) to measure the value of its media relations activities. Media clippings are audited based on a number of criteria (size of audience, quality of messages, positioning, etc.). Publicly available data is used to determine what it would cost to purchase similar advertising. This value is weighted by a factor of three (third-party articles written by journalists are more credible than purchased advertising). During Q209, a global EAV for ICA's 2008 Communications program was determined to be \$9.39 million. This compares favorably with the 2008 budget of \$2.76 million, for a ratio of 3.4 : 1.
- The Gallup Organization, on behalf of the International Copper Promotion Council – India (ICPCI), conducted an attitude perception survey of India's general public, government officials, opinion leaders and other stakeholders. The results of the survey will help shape the course of communications efforts in India going forward.
- ICA China's communications campaign to promote copper in design led to four pages of coverage in *Modern Decoration* magazine.
- In April, the Spanish CDA organized a visit for 13 journalists to the La Farga Lacambra site, to the north of Barcelona. The goal was to unveil copper's essentiality for health, technology and the quality of life, and to demonstrate the importance of copper recycling. "I had never imagined that copper is present in so many different parts of today's life. This press tour has shown me a new concept of this metal, and I have found it very instructive and fun at the same time. A great initiative!" said the journalist Clara Navío, from the Newspaper *La Razón*.
- ICA Latin America, together with important regional stakeholders, in May and June 2009 organized two events. The first was "Health Initiative: a Seminar on Copper in Health, the Environment, and New Technologies." The goal of this seminar was to transfer the latest scientific information about copper to Latin American manufacturers. A second event was held on the final incorporation of copper into the surfaces and instruments in Intensive Care Units (ICUs) of Chilean Hospital Salvador Allende at Calama (northern Chile). Media awareness and interesting notes were published in relevant newspapers, magazines and websites. There were also two TV reports that were broadcast in primetime news, and one eight-minute-long report that aired six times on Cable television.
- The second quarter of 2009 saw CDA U.S. enter the world of social media with the launch of both a [Twitter](#) page and a [blog](#) that share the same name: Coppertalk. The Twitter page, which debuted first, already has demonstrated impressive results by garnering a following of more than 400 people. In fact, initial, rough Web traffic numbers indicate success in

using social media to increase traffic to Copper.org. We invite our members and their employees to join the copper conversation as guest bloggers. Please contact Danielle McAuley at [dmcauley@cda.copper.org](mailto:dmcauley@cda.copper.org) for more information.

- **Copper in the Arts** continues to draw in a significant number of a previously untapped audience, hosting nearly 6,800 visitors in Q2 and serving over 12,000 page views to those visitors. The video content in CITA, made widely available through YouTube, also has been extremely popular, with more than 25,000 views since they first began appearing two years ago.

### **PUBLIC HEALTH**

- In the U.S., CDA exhibited at the Association for Professionals in Infection Control tradeshow and received a very positive reception.
- Efficacy data was submitted to the U.S. Environmental Protection Agency (EPA) on the pathogen VRE, and for alloys down to 60% copper.
- Alloy Groups 3, 4, and 5 were registered with the state EPA in California.
- CDA presented to ASTM and will begin negotiations to develop standards as a result.
- In Asia, a bi-monthly antimicrobial e-letter was launched.
- Katagiri Medical Industries in Japan have successfully fabricated a nickel-silver medical cart and the nickel-silver sheet was tested in clinical practice at Shin-Yokohama Spine Clinic in Japan.
- Copper-fin-and-tube air-conditioner prototypes were installed in two Shanghai public buses to extend the field trials beyond Beijing.
- CDA U.K. is actively engaging the supply chain and identifying champions. Dialogue to create a national standard based on the U.S. EPA protocols is underway, and a newly developed copper product catalogue was posted online.
- Preliminary results were displayed in a press release issued by the Asklepios clinical trials team in Wandsbek, Germany. The results exceeded expectations and demonstrated a greater than one-third reduction in bioload compared to the control items.
- In Latin America, copperized components were successfully installed at the Hospital of Calama in Chile. Protocols mirroring the U.S. trials will be used for data collection. Preliminary data from Calama indicates that copper surfaces will successfully demonstrate bioload reduction.

### **MARKET INTELLIGENCE, DATA AND MEASUREMENT (MIDM)**

- Representing ICA, global MIDM attended two key events in the second quarter of 2009. Market intelligence was gathered at the 3<sup>rd</sup> CRU World Wire and Cable Conference. Information in the form of presentations from the conference was distributed to the Global Strategy Team (GST) and ICA Network Regional Directors. In addition, global MIDM also represented ICA at ICSG's annual meeting. Materials from this event were distributed to a selected internal audience.
- Two live global web briefings were held to present the findings of this year's global substitution survey. Members from all corners of the globe attended the sessions. To complete the information loop for this year, both a non-member presentation and a member presentation have been distributed to all ICA Network offices. Both versions of the

presentation, and further background, can be read on the ICA Intranet under Substitution Information/2008. The link for the Intranet homepage is as follows:

<http://intranet.copperinfo.com/>. Insight held within the survey will be used among the ICA Network, in particular among the GST.

- Water availability, driven by water infrastructure, is a key theme for ICA. Indeed, the topic of water availability is in fact also a key concern for both growing and mature nations. In order to gather market intelligence about this subject, a new database was setup in the quarter. The database can be viewed by clicking on the following link:  
<http://groups.diigo.com/groups/water-availability>.
- Global MIDM has prepared foundations for a worldwide marketing framework that will comprehensively cover the matter of recycling and copper. The major aim of the work was to identify the largest opportunities, risks and drivers implicit with recycling and copper, through the whole of the copper value chain. Drawing on the detailed information now gathered in the quarter, Management has already begun to integrate the findings into the Network mainstream. Background documentation for this recycling initiative can be read on the ICA Intranet. The folder title is MIDM Initiative/Recycling.
- In May 09, the second Global MIDM Team quarterly teleconference was held for this year. Among other matters, the team discussed updating the global supply chain database, analysis of trends appearing in global automotive and the fact that there is a new team member for CDA North America. For further information about MIDM, please contact:  
[colin.bennett@copperdev.co.uk](mailto:colin.bennett@copperdev.co.uk).

### **FUNDING AND PARTNERSHIPS**

- New projects pursued with World Bank, United Nations Development Program, United Nations Environment Program, Rockefeller Foundation, Inter-American Development Bank, Australian Department of Environment , others.
- Four Sustainable Electrical Energy Efficiency (SEE) proposals submitted to European Commission SWITCH Asia. Two approved: \$2.4M for South East Asia's ASEAN energy manager accreditation project, \$0.8M for ICA China energy-efficient distribution transformer project.
- In the U.S., responding to advocacy from copper industry, its partners and suppliers, key individual Members of Congress supported continuing antimicrobial and casting projects, and launching the "Innovative Copper Applications Initiative" and a project to develop compliance tools for metals in anti-fouling paints and sediments. Combined requests exceeded \$22M. The House approved \$4.8M for 2010, while the Senate hopefully will raise the amount when acting in September.
- ICA was represented at international energy efficiency conferences, such as EE Global (also known as the Davos of energy efficiency) and EEDAL (appliances), in order to influence policies and standards, and to network.