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# Practical aspects of deploying copper



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**Mark Tur**

**Industry Symposium: Reducing environmental contamination and improving patient outcomes by strategic incorporation of antimicrobial copper**

**Eleventh Congress of the International Federation of Infection Control  
13<sup>th</sup> October 2011**

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CDA Technical Consultant  
Copper Development Association

Antimicrobial  
Copper



# Contents

01.00 latest news

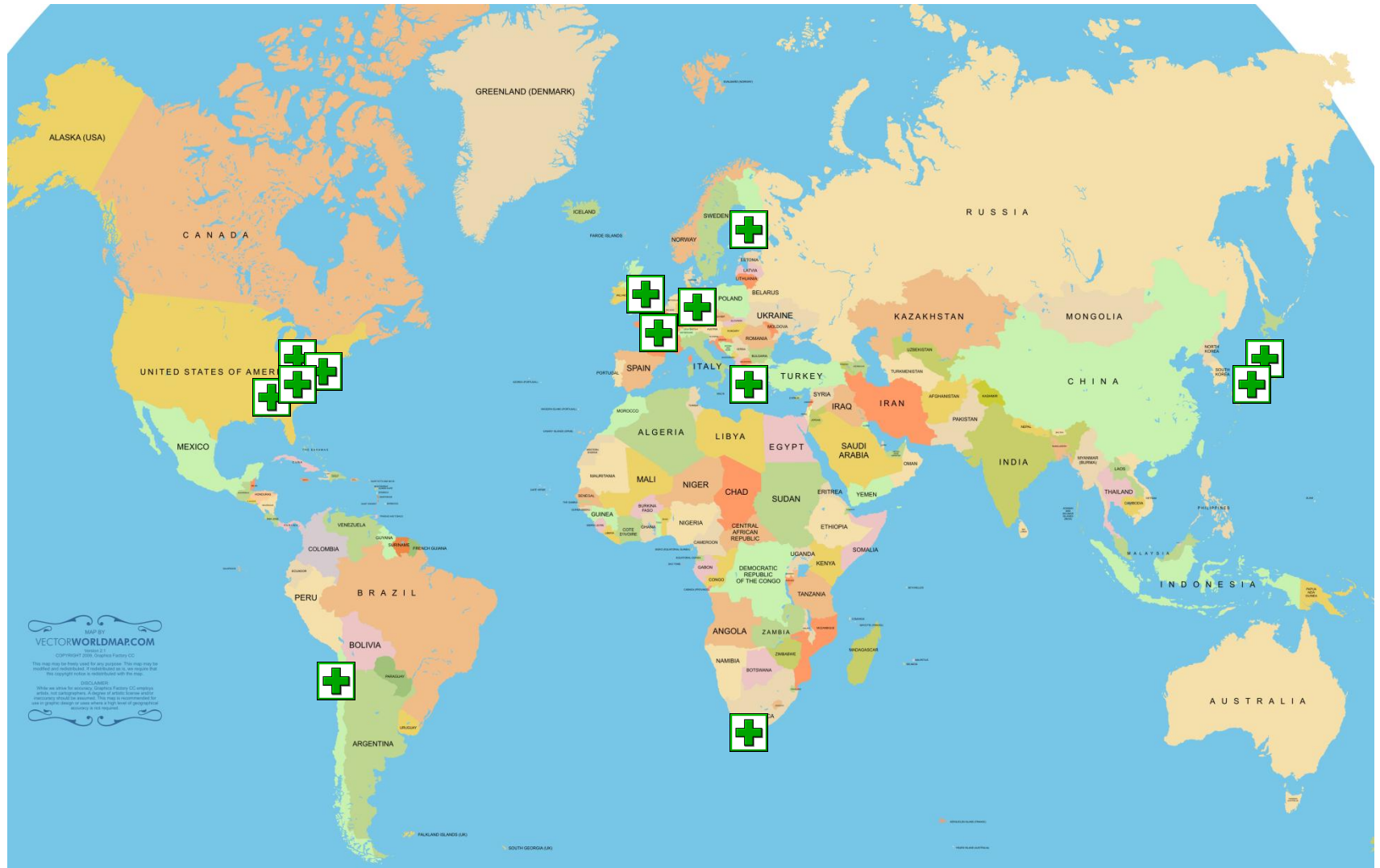
02.00 practical things

03.00 antimicrobialcopper.org – website

01.00

# Latest news

# Clinical trial sites - update



02.00

# Practical things

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## Copper alloys - expensive?

Brass continues to a common industrial alloy:  
widely used for complex cast or machined components because it is  
**cost effective**



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## Copper alloys - **valuable**

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## Copper alloys - **valuable**

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traditional or detailed?

fancy or clever?



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# Copper alloys – colours & finishes



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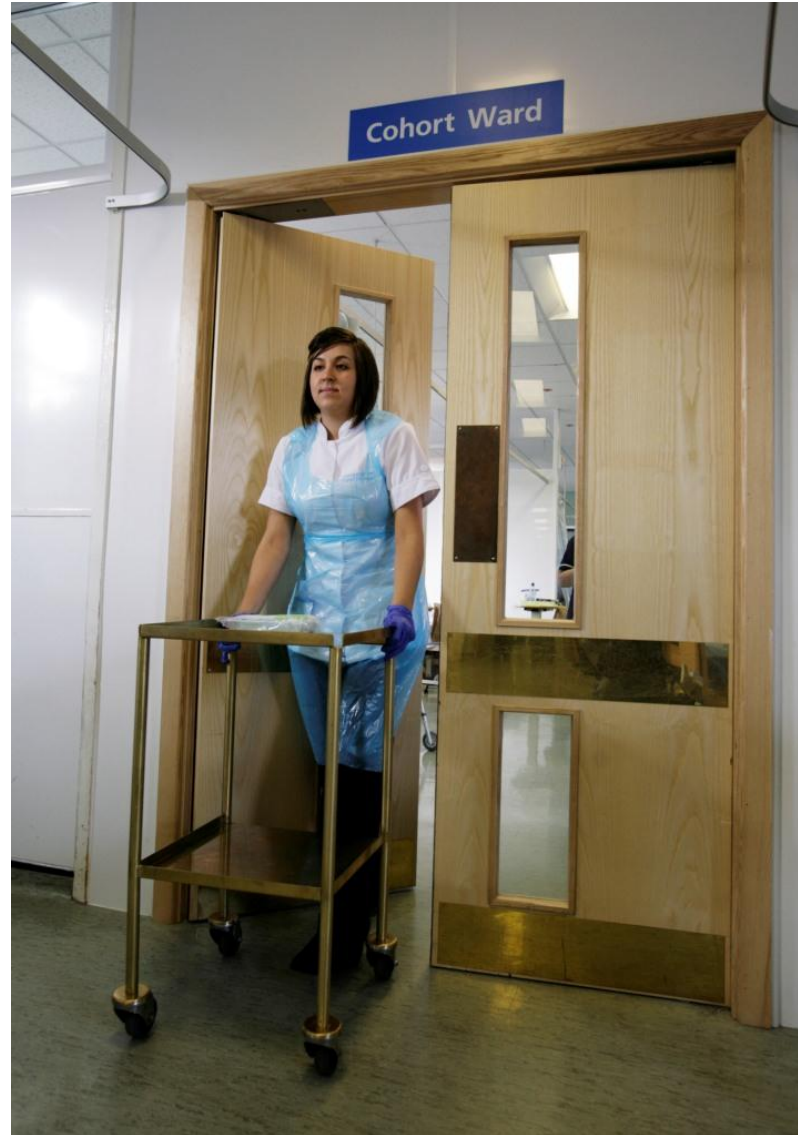
# Copper alloys – colour, oxidation & cleaning



Only inappropriate or poor cleaning practice results in green staining.

If you see green oxides, it means the equipment probably has not been cleaned properly for over a month.

# Selly Oak, Birmingham UK



# Selly Oak, Birmingham UK

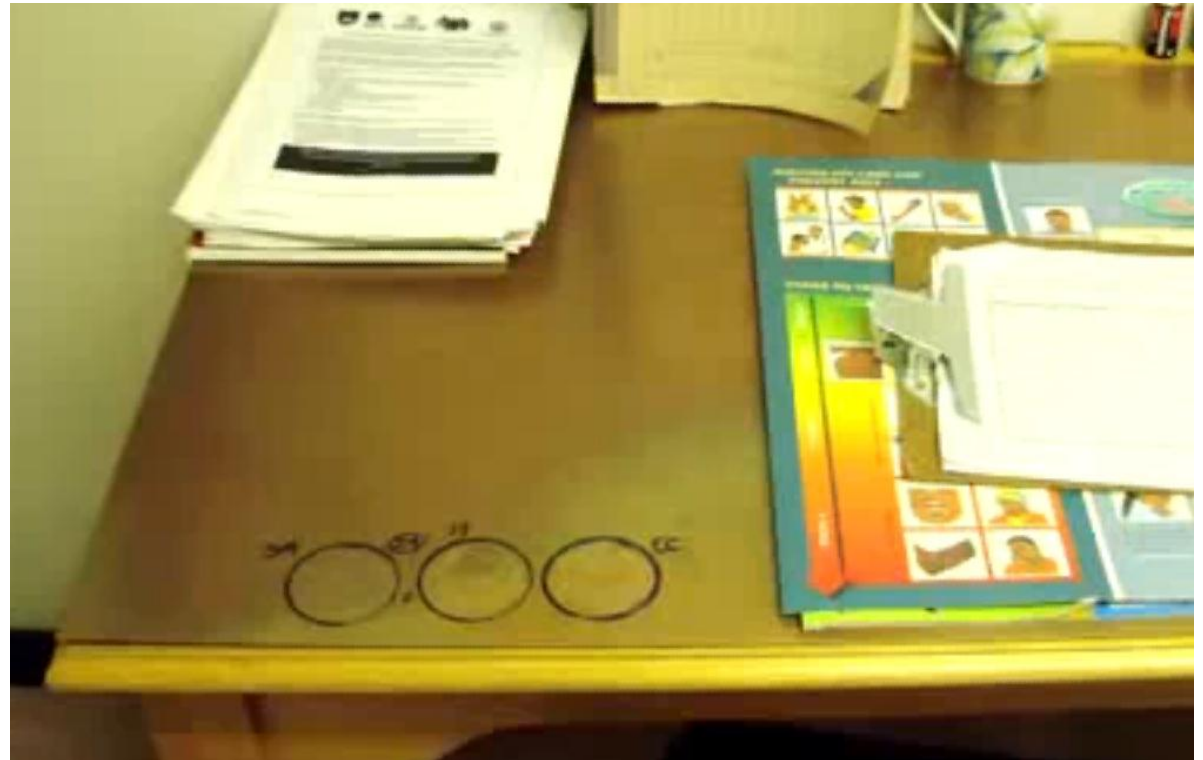


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# Grabouw, South Africa



# Grabouw, South Africa



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# Cystic Fibrosis Unit – Sheffield Northern General , UK



## Attikon hospital, Greece

UK manufacturer's  
copper alloy range





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# CIGMA, Laval, France



# Rambouillet, France



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## Primary school, Greece



# Attikon hospital, Greece



- 
- traditional or detailed?
  - fancy or clever?



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# Detailed...



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**Clever!**









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## Ochiai Clinic, Chiba, Japan - 2009



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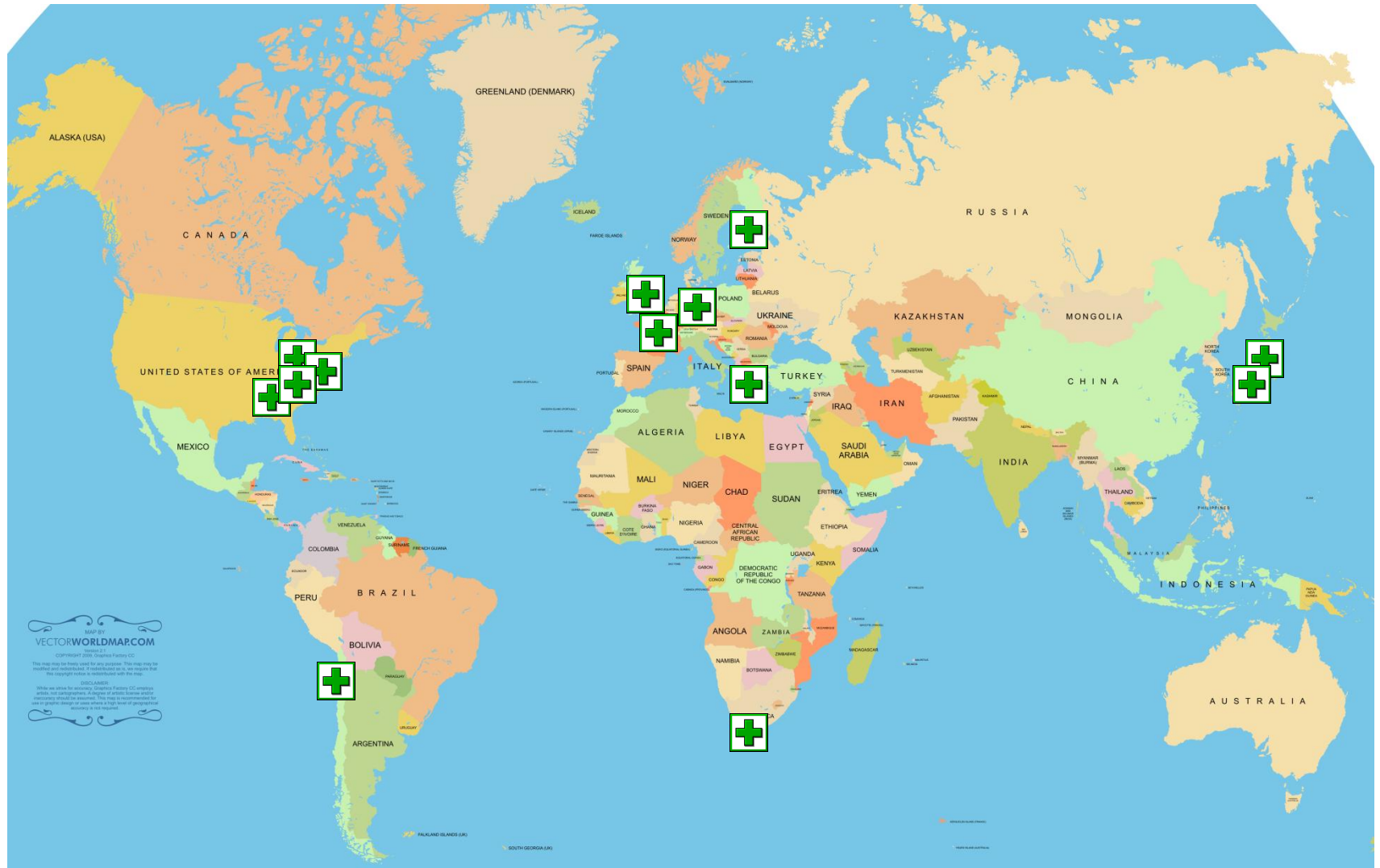


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# Once fitted copper alloys will just keep on contributing to reduced bioburden:

- between regular cleaning
- between planned and unplanned disinfection
- long after special deep cleaning procedures
- with no disruption, no extra chemicals
- and most will last for 30+ years

# Clinical trial sites



03.00

more on the website:

[antimicrobialcopper.org](http://antimicrobialcopper.org)



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Copper?](#)

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## Partner Resources

### Copper Fabricator

Use the Antimicrobial Copper brand

[Read more ▶](#)

### Product Manufacturer

Make products from Antimicrobial Copper

[Read more ▶](#)

### Architect or Designer

Design using Antimicrobial Copper

[Read more ▶](#)



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## Scientific Proof

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[Antimicrobial Efficacy](#)[How it Works](#)[Public Health Claims](#)[Clinical Trials](#)[Laboratory Testing](#)[EPA Registration](#)[Research Groups](#)

## Scientific Proof

### Antimicrobial Efficacy

Antimicrobial Copper is the most effective touch surface material, killing greater than 99.9% of bacteria\* within 2 hours of exposure. No other material, such as silver-containing coatings, comes close.

[Read more ▶](#)

"Silver-containing coatings do not work under typical indoor conditions."

MICHELS, H. T., NOYCE, J. O., & KEEVIL, C. W. (2009): 49, 191-195, Lett Appl Microbiol



### How it Works

Science suggests that Antimicrobial Copper kills bacteria with a multifaceted attack.

[Read more ▶](#)

### Public Health Claims

Antimicrobial Copper is the only solid surface material registered by the US EPA to continuously kill bacteria\* that pose a threat to human health. No other touch surface, including silver-containing coatings, has this kind of registration.

[Read more ▶](#)

### Clinical Trials

Clinical trials investigating Antimicrobial Copper's potential to help fight infections that cause Healthcare-Associated Infections are underway around the world.

[Read more ▶](#)

### Laboratory Testing

Extensive laboratory testing has proven that Antimicrobial Copper continuously kills pathogenic microbes, never wears out, and is safe to use.

[Read more ▶](#)

### EPA Registration

Registered after rigorous testing by the EPA.

[Read more ▶](#)

### Research Groups

Leading scientists and clinicians around the world are engaged in researching the antimicrobial characteristics of copper.

[Read more ▶](#)

Find Antimicrobial  
Copper ProductsFind Antimicrobial  
Copper Semi-Finished  
Products

Find Projects

Find Services

"Antimicrobial  
Copper  
continuously  
kills greater than  
99.9% of  
bacteria\* within  
2 hours of  
exposure."

EPA registrations  
85012, 1 – 6.

[Home](#) > [Antimicrobial Copper UK and Ireland](#) > [Find Products and Partners](#) > [Find Antimicrobial Copper Products](#)

## Find Antimicrobial Copper products

Manufacturers around the world are positioning to use the Antimicrobial Copper Mark to signify that they use recognised Antimicrobial Copper alloys and comply with certain terms and conditions.

Antimicrobial Copper.com is your first and best source to find an ever increasing range of Antimicrobial Copper products and the partners that provide them. Searches can be restricted by location, market that is catered for, and type of product.

### Related Links

[Markets and Applications](#)  
[Proper Use and Care](#)  
[Antimicrobial Copper Range](#)  
[About the Antimicrobial Copper Brand](#)

### Filter

Location

Africa and the Middle East

Market

Medical and Healthcare

Product category:

All

Product subcategory:

All

Filter

Product photo	Product name	Company	Partner status
	<b>Shower Arms</b> Cobra Watertech supplies shower arms with wall flanges in polished brass.	<a href="#">Cobra Watertech (Pty) Ltd</a>	<a href="#">Eugene Henning</a> Approved
	<b>Shower Heads</b>	<a href="#">Cobra Watertech</a>	<a href="#">Eugene Henning</a> Approved

# Review

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# Practical aspects of deploying copper

# Thank you!

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