Use More Wood in the Public Realm

Breakfast discussion 1 March 2023 Durable wood construction in the public realm

Fredrik Westin



European Institute for Wood Preservation

wei-ieo.org

Who are Wei

- European industry trade association representing the treated wood industry
- Founded in 1951 and with registered office in Brussels
- 200 member companies across Europe:
 - wood processors,
 - preservative manufacturers,
 - related service organizations such as research and testing institutes and specialists

Activities

- Member advice
- Monitor and advocacy
- Standardization
- R&D Projects
- Industry cooperation
- News and documents
- Meetings and congresses



Some example of products developed and produced by WEI-IEO Members



Treated wood creates value

- Members are SMEs with a few large groups. In all about 8 000 companies and 250 000 employees in wood treatment and related
- Production of treated wood is above 7 million m³
- Treatment adds up to 8% of cost to wood and extends functionality and service life with 3-5 times (15-50 year or more)
- No European wood species have a natural durability that is competitive with treated wood



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Examples of wood in the public realm

- Other areas of use, not included in today's topic is:
 - Infrastructure (Poles and Railway Sleepers)
 - Farming (Fencing, agriculture)
 - Housing frames
 - Private use (decking, wood in the garden)
- 9 slides, 8 seconds each
- (https://www.pinterest.se/Traskyddsforeningen/)
- Imagine were and how in your realm!





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Concrete Products in Norwich From Attlebridge Concrete...



Concrete Block Fence - Types...

Kellie Rinker



Acoustic Fencing Tenting Jacksons Fencing



Barriera antirumore con Pannelli in Acciaio Corten | CIR ...





Timber Acoustic Fencing | Acoustic Barriers | Procter...



Acoustic fencing and noise reducing fences made from timber...



Commercial Fencing and Gates

Acoustic - Davison Fencing



Acoustifence-Noise Reducing

PPE Bolton Local Deliveries Click

and Collect

Fences



What Kind of Fence Will Block **Road Sounds Best?**







Precast Concrete Noise ...



Trä i anläggningar - Svenskt Trä

55 The Best Fence Wooden Design That You Can Try In Your...



Timber Acoustic Fencing | Acoustic Barriers | Procter...



Cost of a new fence? -ScoobyNet.com - Subaru Enthusiast...



Acoustic Barriers and Acoustic



Horizontal Wooden Fence & Gate







Jakoustic® Reflecti Fencing | Acoustic |

Penetration

Reflection

Diffusion

Fencing NZ | Comm New Zealand



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ParisGainsbourg07 « Landscape Architecture Works | Landezine...





(Wall Extension) - Hollowood

















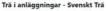














Wooden slatted fencing, to be



attached on top of a garden ...

Fencing

Zucchi Architetti

Vadeggio-Cassarate Gallery / Cino









Outdoor seating for city of Amiens, France



iGuzzini illuminazione (@iguzzini) · Instagram photos and...



Разумная красота





Gridshell Toledo



När vattnet blir en del av undervisningen



Bostanlı Footbridge & Sunset Lounge / Studio Evren Başbuğ





7 etsy.com

Professional Resume Template | Editable, Printable, Modern ...

£



Woven - 7







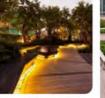
Gallery of Uwo By Workshop /





Henderson Waves Bridge WordPress.com





Life@Ladprao 18 Condominium Garden by Shma Design «...



parkERs | グリーンを活かした空間 デザイン、オフィスの室内緑化なら パーカーズ







This Rooftop Deck Has Custom









Drone footage tours bustling promenade on Chicago's...



Würth La Rioja Museum Gardens



Partners HealthCare

https://wei-ieo.org



Набережная "Акер Брюгге" в Осло, Норвегия



Tim Hunt - Lighting Designer

25 Modern Outdoor Lighting **Design Ideas Bringing Beauty** and ...



From Bocce to Dog Spas, NYC **Rentals With Outrageous Perks**



Unfolding Terrace ландшафтный дизайн на крыше здания в...



TCL_Monash-Northern-Plaza_-Ben-Wrigley-03-RGB-72dpi «...



Trädäck och altaner med

inbyggda funktioner



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From Neglected to Extraordinary. The Story of the Qian'an ...













C Contemporist







Flickriver: Searching for photos matching 'finnish'



Facebook



Uppingham Wooden Bus Shelter -Littlethorpe of Leicester



Harborough Wooden Bus Shelter Fully Glazed - Littlethorpe ...



Harborough Wooden Bus Shelter



Gallery of Winning Proposal for Bus Shelter Challenge...



Ashkirk Wooden Bus Shelter -Littlethorpe of Leicester



Rural bus shelter



Hardwood Open & Closed Bus shelters - Outdoor Timber...



Centro de Eventos Iporanga - ITA Construtora



Pontos de ônibus de Garopaba são destaque em revista do...



Bushaltestelle Wartehäuschen Fachwerk mit Lehmsteinen



Fungi Could Break Down Toxic





Morgan Church

Pasarela Peatonal sobre el río

Segre, Lleida / Ravetllat...



Japanese garden covered bench

Outdoor Signs



Gallery of BUS:STOP Unveils 7 Unusual Bus Shelters by World..



17+ Splendid Shingles Roofing **Curve Ideas**



Practice



Enclosed Bus Shelter

https://wei-ieo.org





Byron Property Search

siga





Instagram: "Please visit our...



Redmile Wooden Bus Shelter -Littlethorpe of Leicester



Surrey Wooden Bus Shelter -Littlethorpe of Leicester



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BPA









25 Cool and Unusual Bus Stops -



Forest crossroads



Bridal Veil installation by Louis Sicard is a water curtain ...



A Trip to the Old Moss Woman's Secret Garden



Zig Zag Bridge Over Irises Kanazawa, Japan





5 actividades turísticas fora do vulgar em Portugal

Visitando as Cataratas - Blog do Rodrigo - 1000 dias

Gallery of House in The Patagonia

Fjords / Armando Montero...

Arninge-Ullna Riparian Forest Park | Stockholm, Sweden ...







Lammassaari Boardwalk by Nomaji « Landscape Architecture ...





Bicycle tourism is on the rise

Outdoor Rooms - Steps





14 Under-the-Radar Beaches You...

Takker Condé Nast Traveler



7 wisont.wor..

Baan San Ngam Condominium

Four Seasons Hotel in Koh Samui, Thailand







The Virginia Creeper Trail



Why Everyone In Virginia Should Visit This One Tiny Town



For The World To See



Passadiços do Paiva: dicas para quem gosta de sossego...









A Surprisingly Luxe Cycling Trip Through the Rust Belt



A beleza surpreendente dos Passadicos do Paiva



microcoasts.





Os Passadiços do Paiva

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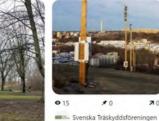
Woodland Scenics Just Plug O Scale Wooden Pole Street...



O 18

Super Landscaping Lighting... Landscaping









O 23 *0 Belysningsstolpe i Skidbacke



Candéliance : Éclairage et aménagement des espaces









Asuntomessualue, Mikkeli, Suomi, Katuvalaistus,



70

Svenska Träskyddsföreningen Lantaarnpaal



ANGELO - TimberLab







Lamps For Your Home - House And Home Review





Custom Furniture handmade... Speas Interior Design













TimberLab



Custom design and manufacture wood light poles



TimberLab





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Slänt - del av trädgården med

möjligheter

Backyard Fence Design Ideas to Railway Sleepers... Inspire You | Yard Surfer



Parking Lot Repair Charlotte NC Asphalt Paving









20 Inspiring Tips for Building a **DIY Retaining Wall**



It's ok. We've got the tools to fix this.

garden



















Simple Timber Sleeper Retaining Wall Design — Funmom Home ...

How to Build an Interlocking **Retaining Wall**

River mooring construction...

Youn Fet

articles foregree or

DIY Garden Retaining Walls + The Garden Glove



Retaining wall photos



50 Great Design for Backyard Landscaping - Decoratoo





Outdoor Wooden Stairs Giving Unique, Warm Look to Modern





20 Inspiring Tips for Building a **DIY Retaining Wall**



Landscaping











Great fort, if your yard has little

room and hang - Porch ...





Architect And Interior...



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Landscape Design - Pro Earth









Concrete Porch Steps | Concrete Floor Stain | Concrete ...







9 Hidden Spots You Need To Visit In... London!



To Lure Tourists, Norway Invests \$377 Million in Stunning ...



Inicio - Media Madera AITIM



Gallery of Tintra Footbridge / **Rintala Eggertsson Architects...**

und....



Gallery of Jesuit Community Center at Fairfield University...



Inicio

Pedestrian Timber Bridges -Western Wood Structures









Pedestrian Timber Bridges -Western Wood Structures



Pedestrian Timber Bridges -



Piers Taylor on Twitter







Passu - Hussaini Suspension Bridges



Ingénieurs et designers du bois



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AITIM



2015-04-08-Lyon0193





StructureOregon 2011: Boost

Footbridge Awards 2014 winners







GASP! by Room 11 is a sequence of riverside pavilions and ...





Infinity Bridge at night, Stocktonon-tees

Aurland Look out / Saunders arkitektur + Wilhelmsen...



Infrastructures et équipements extérieurs | Portail officiel...





https://wei-ieo.org





















Coberturas Dome PreFab



A Modern Winery Wedding in Washington State





Thank you for contacting us I



Oakwrights



Reclaimed Wood Church Built According to Traditional...

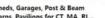


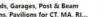
Ask the Outdoor Living Experts:

What Makes a Masterful Barn...



Осторожно! После прочтения Sheds, Garages, Post & Beam вы захотите переехать в Казань! Barns, Pavilions for CT, MA, RI...







Middle Creek Pavilion





72 Extraordinary Wood Backyard **Pavilion Design Ideas Outdoor**

New Outdoor Pavilion: The Alpine: The Barn Yard & Great...





Blackberry Farm







House 1 / ALICE Studio Architects

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Rustic Oregon Wedding: Aili +



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Gorgeous street library in Bulgaria offers 1,500 books for ...

Gallery of Creation of a Forest

Shelter at Bertrichamp...







nnonser









Clippings









Frame House

https://wei-ieo.org























bamboo roc von restaurant by vo

































Crash Barriers | W Beam ... Om Wires



Mauldin & Cook Fence Co.





5 Top-Tipps und Tricks: Zaun Dekorationen Tipps Holzzaun...



Doweled Wood Fences - Fencing Installations





Ideas Gallery - Golden Cypress **Rescued Timber**



Crash Rated Barriers - Timber Crash Rated Barriers





Scenes from Southern California **Centsational Style**





Crash Rated Barriers - Timber Crash Rated Barriers



Acoustic fencing and noise reducing fences made from timber...



Eastgate Greenway



AAA Fencecrafters AAA FenceCrafters







On-Site Top Down Bridge Construction | York Bridge ...



Acoustic Commercial and Highway | Acoustic Fencing...



BSU Alumnus



Mötesplats med värme -Tidningen Trä











Jacksons Clótures





価格.com - デジタル 一眼カメラクチ コミ掲示板の投稿画像・写真1/2 [1360755]



Wood Driveway Bridge



Mauldin & Cook Fence Co.



Wood Guardrails - Reliable Fence



URBAN

Images of post & rail Fences & Bollards - Beams & Timber NZ







Post and Rail 2-Rail Fences -

Contraction of the



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Prints, Wall Art & Photo Gift...

What lies in front of us?

Wood is a tool to the European Bauhaus and Circular product initiative:

- More complex and demanding structures (replacing)
- Bifrost: 90% wood, 40 meter, less than 20 ton
- Hybrid constructions, modular and scalable building systems
- Made of standard components of standard dimensions designed to be reused
- Maintenance by substitution of standard components in place





BIFROST - BImodulär Formbar RObuSt Träbro https://vimeo.com/768613164/332322d593

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- Why don't we use more?
- Why is it often used incorrectly?



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-We don't use treated wood because it is toxic!

- Treated wood is often mistaken for being toxic and high risk <u>but that is not true</u> <u>anymore</u>
- Treated wood is safe!
 - I would argue that it is safer than most comparable building materials
 - It has been tested according to BPR
 - Production follows IED



Treated wood has undeservedly bad reputation



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Resent development of ecolabels



Going from chemical risk reduction to Life Cycle approach

Svanen eco label is based upon ISO 14024 and a holistic sustainable model

- Svanen accepts treated wood since it gives local wood products very long service life and is a sustainable good choice
- Treated wood is also getting good ratings in most eco-label-systems for building materials
- Waste from treated wood is non hazardous waste according to Waste Directive



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Learning to use wood

- Using wood requires a new building systems and technics
- Complexity requires cooperation
 - policymakers, specifiers, architects, wood industry, construction, property management, and users
- Further develop wood preservatives and durable wood products
 - Safer, long reliable service life, fit for purpose, circular use, resource efficient
- Funding to increase speed



Better wood preservatives and fair competition

- Biocidal Product Regulation, BPR makes biocides safe, and this is good
 - BUT:
 - Development of wood preservatives has become expensive, and the risk is high
 - Misses the sustainability costs of alternatives (consequences of exclusion)
- Treated wood has an unfair <u>dis</u>advantage
 - Treated wood competes with other materials that is not regulated by BPR
 - Same substance, same risk but not designed to be a biocide has no restrictions and could have
- More costly
- Slowing down R&D and reducing investments
- Unfair competition with other competing building materials
- Wood not fit for purpose
- Suboptimizing
- Un-sustainable decision



Risk for Backlash for Wood

- European wood species without preservation is not competitive and is less sustainable
- Using more wood is good, but using it incorrectly is not
- We need to learn more and educate people about the proper use of wood



The collapsed Tretten bridge in Norway could be used as an argument for that wood is not working. <u>https://en.wikipedia.org/wiki/List_of_bri</u> <u>dge_failures</u>



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We need your Support for durable wood

- Support the transition to wood by <u>development</u>, <u>education</u> and <u>implementation</u>
- Reduce bureaucracy of BPR and create "sustainable holistic approach in the implementation of the BPR"
- Make competition <u>even</u> between building materials and systems with sustainability benchmarks
- A bold move would be to use EPDs to set <u>carbon restrictions</u> to constructions in the public realm
- A bold move would be to implement "wood first, -strategy"



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In summary

- Treated wood is safe and sustainable
- Preservative treatment extends functionality of European wood products and service life and makes European wood products competitive
- Treated wood products is an important building block for the sustainable construction in Europe



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https://wei-ieo.org

Fredrik Westin

Thank You!

Managing director of the Swedish Wood Preserving Association General secretary of the Nordic Wood Preservation Council Member of the Executive Committee of WEI

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Disclaimer: This presentation is the view of the presenter and not necessary the public position of the WEI-IEO





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NWPC