#### JÖRG STAMM BAMBOO CONSTRUCTION

#### Bamboo Lightweight structures in Urban Area





# Nature as inspiration



" Three Mountains "

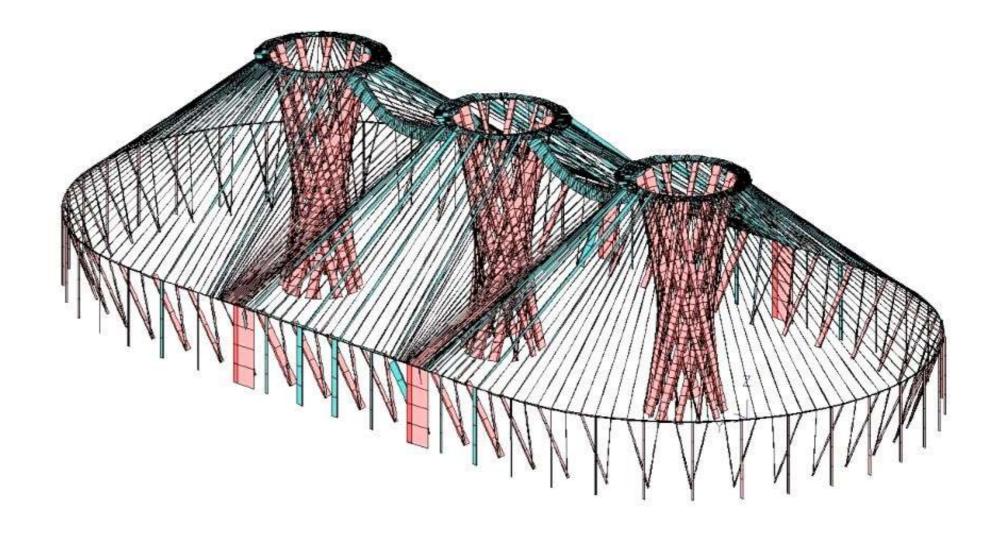
#### Morter injection 10-folds joint capacity

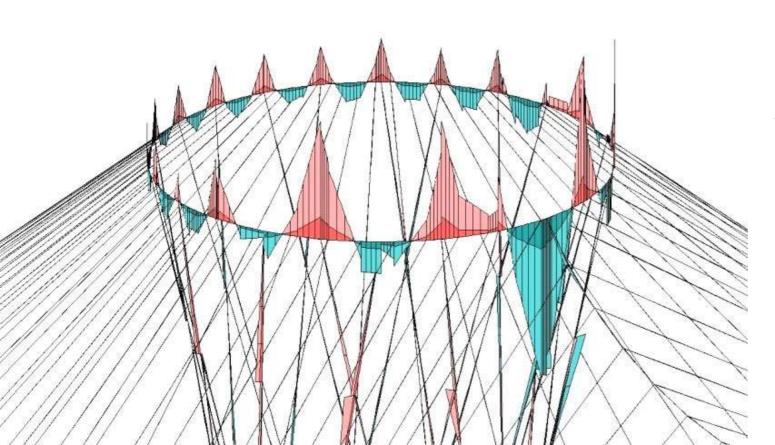
#### **JÖRG** STAMM











**Structural Analysis** by Dr. Althoff, Erfurt University

# Sky Light Effects enhanced by natural beauty

### THE ARC

The Arc at Green School is a series of bamboo arches spanning 19 meters, interconnected by anticlastic gridshells which derive their strength from curving in two directions.



#### **THE ARC**

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# THE ARC





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## THE ARC

#### First Bamboo structure in USA

Mc Kee Botanical Gardens, Construction permits by City Hall Vero Beach. survived Hurracan Rita in 2004







#### Ecuador traditional House Reconstrution,

after earthquake 2016



Prefab Storage hall in Palenque, Mexico





#### Barn style, spaced columns and beams.



House Bridges give Maximum benefit on minimal maintainence 8

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## House bridge

30 m, 18. Century

# Bamboo bridge,

40m, 21 Century

# Eco-engineering con giant Grass

Ecolodge in Sumatra, Bamboo in its native environment.

> Architecture is resembling a natural Growth pattern.

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Bridge, Bali, Indonesia 2008

Sibang Bridge at Greenschool







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Arch and Tensile poles as Bridge concept

Bamboo Sculpture in a modern city Cucuta, Colombia



#### JÖRG Stamm

# Easy lifting procedures due to lightweight



## "Grouting", 10x folds the joint capacity



PinBoo, glue free Flooring

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STAMM

Official Load test with a total of 450kg / m2





### Bridge Trusses are pre-assembled and pushed over the river

JÖRG STAMM

Lifting proceedure with a crane, or "by hand", traditional style.









### "Protection by Design" with bamboo shingles



Orang Utan Haven, Scissor Bridge Truss, 30 m, Sumatra, Indonesia NIT N.

## Concept: Triangle

Pinboo planks for Flooring 4 cm thick. Skylight and the free swinging wings



Mero system, since 1936

conus joints for space frames

# Space frames,

modular prefabrication

# Orguids Botanical Gardens, Mexico

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## Botanical Gardens

Chapultepec Mexico



This giant grass is sustainable, appealing, embodies sun energy and it is as versatile as any wood.

Shells with curved bamboo, Bambusa yulgaris.



# mobile Yurt, for Parks and Events



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### Playa Viva, Guerrero, México

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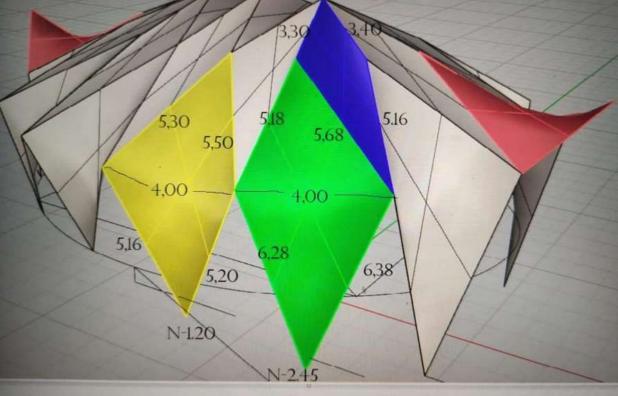
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Kevin Steele, courtesy Playa Viva



Terra Mulungu, retreat center, Guararema, Brazil









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