Third International Conference **CONSOLFOOD**2020

Advances in Solar Thermal Food Processing

22-23-24 January 2020

INSTITUTE OF ENGINEERING; UNIVERSITY OF ALGARVE; CAMPUS DA PENHA; FARO-PORTUGAL

Fighting the climate crisis through education: Using Solar cooking principles to teach bioclimatic design and other ecological topics.



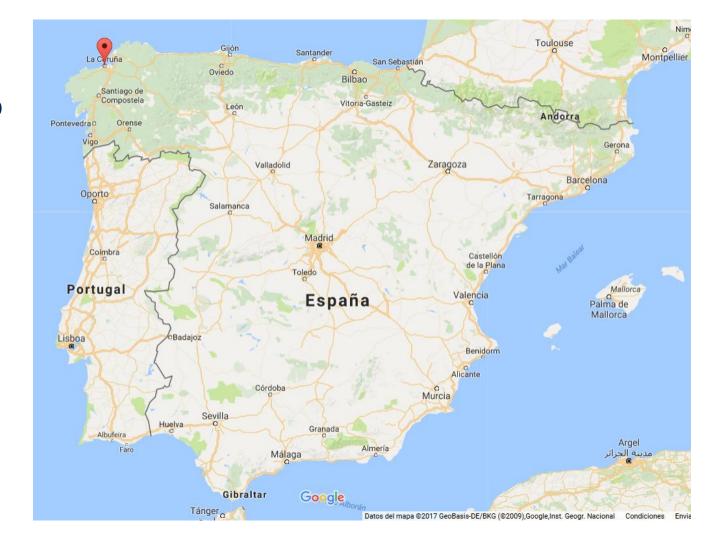
Juan Bello Llorente

CIFP Someso A Coruña. España Energy consumption in the building sector is an important factor of climate change. Part of the cause are the heating and air conditioning systems using non-renewable energy sources.



LOCATION

A Coruña. Spain 43.37º N, -8.37º O



Bioclimatic experimental module "A Vieira" CIFP Someso. A Coruña



Bioclimatic experimental module "A Vieira" CIFP Someso. A Coruña



Summer

Winter

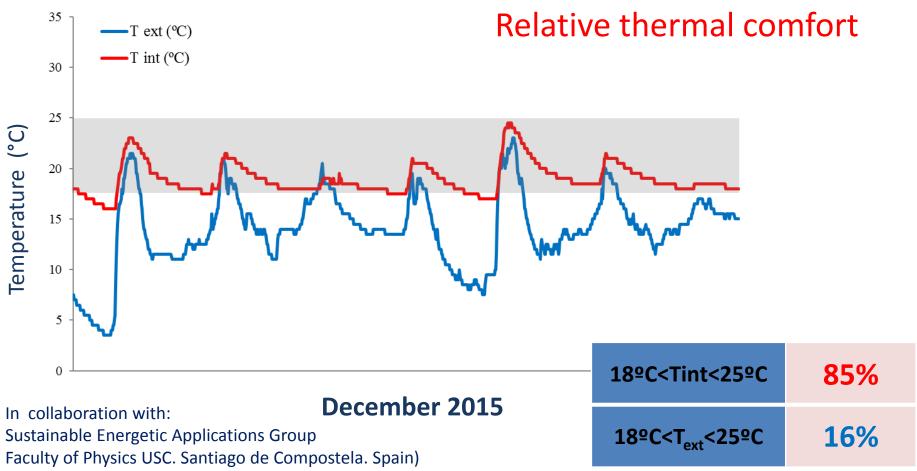




XUNTA DE GALICIA CONSELLERÍA DE EDUCACIÓN E ORDENACIÓN UNIVERSITARIA





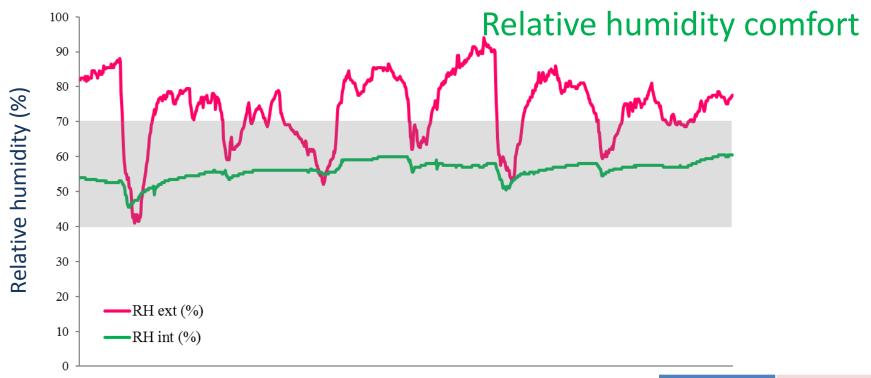


100%

31%

Interior

Exterior



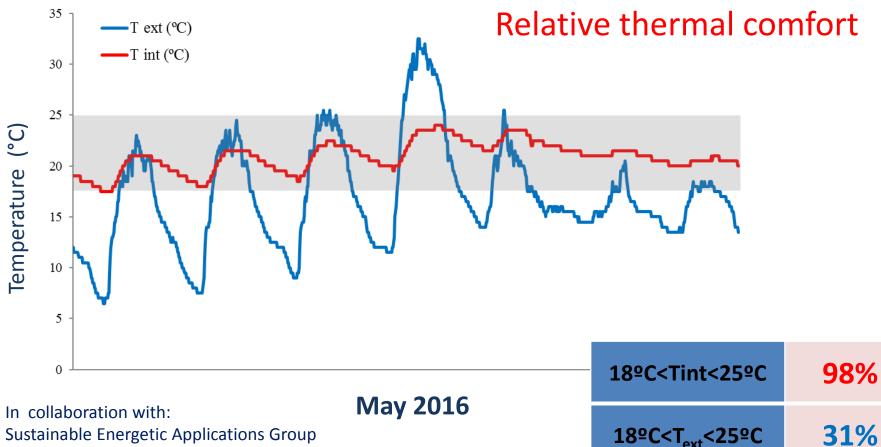
December 2015

Sustainable Energetic Applications Group

In collaboration with:

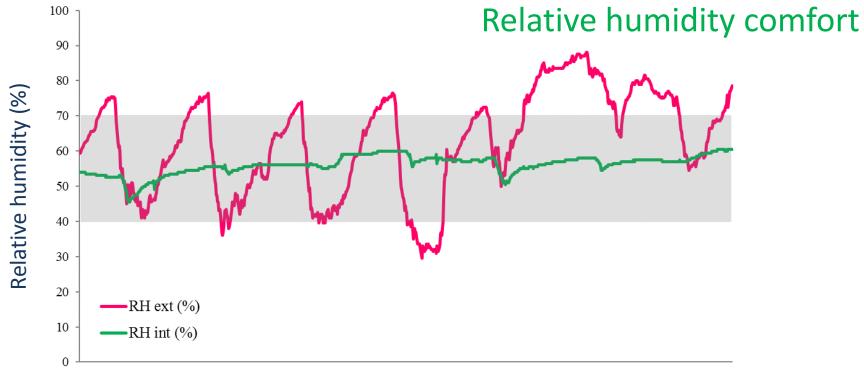
Faculty of Physics USC. Santiago de Compostela. Spain)

18ºC<T_{ext}<25ºC



Sustainable Energetic Applications Group

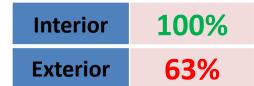
Faculty of Physics USC. Santiago de Compostela. Spain)

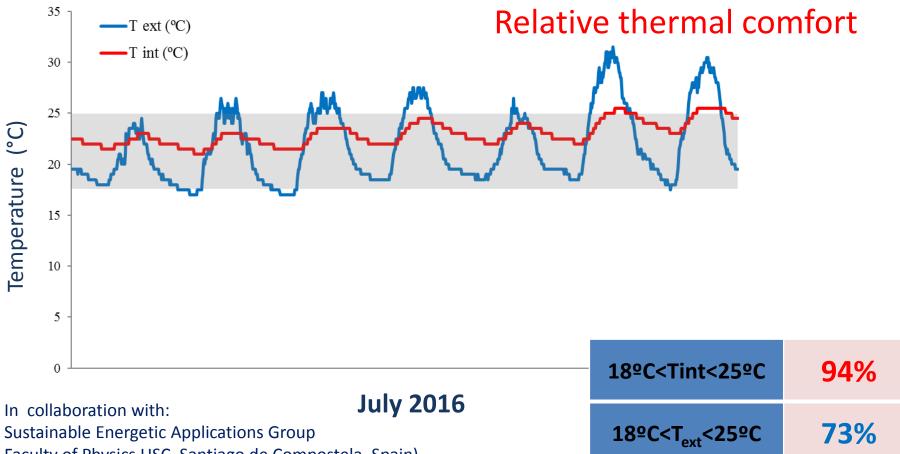


May 2016

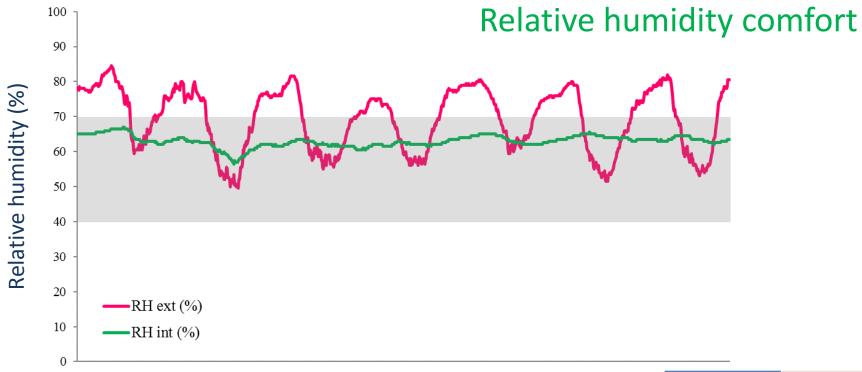
Sustainable Energetic Applications Group Faculty of Physics USC. Santiago de Compostela. Spain)

In collaboration with:





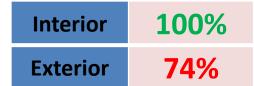
Faculty of Physics USC. Santiago de Compostela. Spain)



July 2016

Sustainable Energetic Applications Group Faculty of Physics USC. Santiago de Compostela. Spain)

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"Casa vs Caja" HOUSE vs BOX

Different dimensions but similar concepts:

four walls a floor a window (through which the sun enters)



Low cost solar oven

REWARD: Delicious dishes



Example for building Grape vine

Several applications:

Sun in winter Shadow in summer Grapes in autumn



Single use bottles: not a good solution

Don't buy them

Recover them!!!

Save the oceans

Save the climate



New uses, long life:

Use as stabilizers

For heating water

Hot water to wash up

For padding during transport

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"Nobody made a greater mistake than he who did nothing because he could do only a little"



E. Burke

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