

# Forest Resources for Iberian Empires: Ecology and Globalization in the Age of Discovery, 16<sup>th</sup>-18<sup>th</sup> centuries.

## Venue:

Centro de Ciencias Humanas y Sociales del Consejo Superior de  
Investigaciones Científicas, Madrid (CCHS-CSIC)

## Address:

Albasanz, 26-28. 28037 MADRID, SPAIN. Tel: +34 91 602 23 00



## INTENSIVE TRAINING COURSE:

Application of Geographical Information Systems (GIS)  
to Maritime History and Archaeology

13-16 October 2015

Organized by Ana Crespo Solana, ITN-Coordinator

Venues: Sala Menéndez Pidal (0E18), Sala José Castillejo (0D1) &  
Aula de Informática (0D5)

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## INTENSIVE TRAINING COURSE

Application of Geographical Information Systems (GIS) to  
Maritime History and Archaeology

Dr. J. B. "Jack" Owens (ISU), Dra. Jemma Bezant (UWTS), Dr. Ian Gregory (LU), Dr. Toby Jones (NMH), D. Brandon Mason (MAT), D. Miguel San Claudio (Archeonauta), Dr. María José García (CSIC), Dr. David Alonso García (UCM), Dra. Ana Crespo Solana (CSIC), Dr. Filipe Castro (TAMU), Dr. Jan Willem Veluwenkamp (RG), Dr. José Luis Gasch Tomás (CSIC), Dra. Sara Rich (MAT) and Dr. Peter Groenendijk (USC).

Venues: Sala Menéndez Pidal (0E18), Sala José Castillejo (0D1),  
Aula de Informática (0D5)

### Tuesday 13 October

9'30-11'00: **Module 1: Introduction to historical GIS. Theory and Space.**

9'30- 11'00: *"Exploring human systems (and coupled natural systems) nonlinear historical paths for narrative GIS"*. J. B. "Jack" Owens

11'00-11'30: Break

11'30-18'00: **Module 2: Geographical Information System**

11'30-13'30: *"Geographical Information System (I): Space, Time and Cognition"*. Jemma Bezant

Break for lunch

15'00-16'30: *"Geographical Information System (II): Mapmaking in ArcGIS, practical session"*. Jemma Bezant

16'30-17'00: Coffee Break

17'00-18'00: *"Geographical Information System (III): 3D and Terrain Modelling for Historic GIS"*  
Jemma Bezant

### Wednesday 14 October

9'30-14'00: **Module 2: Geographical Information System**

9'30-11'00: *"Using ArcGIS and geonames to georeferenced data (I): Theory"*. Ian Gregory

11'00-11'30: Break

11'30-14'00: *"Using ArcGIS and geonames to georeferenced data (II): Practical lessons"*. Ian Gregory

Break for lunch

15'00-18'00: **Module 3: Mapping and visualization of the Underwater Cultural Heritage**

15'00-16'45: *"Rhino 3D (I)"*. Toby Jones

16'45-17'00: Coffee break

17'00-18'00: *"Rhino 3D (II)"*. Toby Jones

### Thursday 15 October

9'30-16'30: **Module 3: Mapping and visualization of the Underwater Cultural Heritage**

9'30-11'00: *"The Atlas of the two Seas and beyond – integrating data sources for mapping and visualisation"*. Brandon Mason

11'00-11'30: Break

11'30-13'30: *"Site Recorder GIS Application in Underwater Archaeology"*. Miguel San Claudio

Break for lunch  
15'00-16'30: *"Cartography : How to map"*. María José García Rodríguez

16'30-18'00: **Module 4: Network Analysis.**

16'30-18'00: *"Using Network Analysis"*. David Alonso

### Friday 16 October

9'30-13'30: **Module 5: The ForSEADiscovery Databases and future application and project in History and Nautical Archaeology.**

9'30-10'00: *"Plans for the ForSEADiscovery Database. The origin"*. Ana Crespo Solana and Filipe Castro

10'00-11'00: *"Sound Toll Registers online as an instrument for historical research"*. Jan Willem Veluwenkamp

11'00-11'30: Break

11'00-12'00: *"Sound Toll Registers online as an instrument for historical research"*. Jan Willem Veluwenkamp.

12'00-13'30: *"Practical lessons Database and GIS"*. José Luis, Sara Rich, Peter Groenendijk and María José García Rodríguez

Break for lunch

16'00-18'00: **Module 6: Dissemination of the Underwater Cultural Heritage (Open Discussion).**  
Chairs : José Luis, Sara Rich, Peter Groenendijk and María José García Rodríguez