

For further

information please contact the Cabdyn

Seminar webpage: www.cabdyn.ox.ac.u

k/complexity_semina

info.cabdyn@sbs.ox.ac.uk

Administrator:

01865 288785

rs.asp

SAID BUSINESS SCHOOL, University of Oxford

SEMINAR SERIES / TRINITY 2010

Convenors: Felix Reed-Tsochas, Institute for Science, Innovation and Society, Saïd Business School Eduardo López, Saïd Business School

Tuesday 27th April

(12.30 - 2.00pm) James Martin Seminar Room

Dr Michael Gastner Institute for Mathematical Sciences, Imperial College of London

'The Complex Network of Global Cargo Ship Movements'

ABSTRACT

Transportation networks play a crucial role in human mobility, the exchange of goods, and the spread of invasive species. With an estimated 90% of world trade carried by sea, the global network of merchant ships provides one of the most important modes of transportation. I will present how the world-wide network of ports can be inferred from itineraries of 16,363 cargo ships during the year 2007. The network's properties will be compared to other transportation networks and previous models of network flows. I will discuss implications, especially for forecasts of shipmediated marine bio-invasion which is threatening many coastal ecosystems.









drinks will be provided

Sandwiches and

Please note: although the seminar programme detailed was correct at time of printing, seminar arrangements are subject to change for the latest information, please check the seminar webpage.