Title: Changes of activity space in the e-society in China

Speaker: Mr WANG Bo, PhD Candidate, Department of Geography

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Abstract: In the e-society era, people are able to access information almost anytime anywhere using different electronic devices. This theoretically enables people to conduct activities by alternative e-means (i.e., e-activity) instead of the conventional physical means (i.e., physical activities). As e-activities usually have less time-space constraints than physical activities, the wide use of information and communication technologies (ICTs) not only affects almost every aspect of people's daily life, but also reshapes the spatial development of regions and cities. The function and role of existing nodes, including both city nodes in a worldwide, national, or regional system, and activity space nodes within a city, is experiencing drastic changes. These continuing changes challenge our basic understanding of the spatial organization of activities at the regional level as well as activity space based on static and fixed nodes such as home and workplace at the local level. Using case studies in China, this research is going to shed some light on understanding these changes of activity space in practice. Specifically, this research focuses on two geographic scales: the regional level (intercity network) and the local level (within the city). At the regional level, it aims to (1) examine the city network on the basis of virtual interaction (i.e., internet search between cities) and physical interaction (i.e., movement of high speed rails passengers) and (2) evaluate the utility of travel time when different kinds of e-activities are conducted during the trips. At the local level, it aims to (3) examine the emergence and location choice strategies of co-working offices as well as (4) the functional changes of home by e-working and e-shopping.