



5th International Conference on Spatial Cognition

Rome, September 4-8, 2012

Conference Theme: Spatial and Embodied Cognition

Website: <http://w3.uniroma1.it/icsc/2012/>

Symposium Title: *Spatial Strategies in Primates: Decision making in large-scale and small-scale space*

Symposium Organizers: Paul A. Garber¹ and Francine L. Dolins²

¹Department of Anthropology, University of Illinois, Urbana, Illinois, 61801, USA

²Department of Behavioral Sciences, University of Michigan, Dearborn, Michigan, 48128, USA

Symposium Abstract:

Primate species face significant challenges in locating resources that vary significantly in time, space, and quantity. In some species resources are clumped and individuals exploit home ranges of less than 1 hectare (ha). In other species, resources are widely scattered and individuals exploit home ranges of over 20 km². Moreover, our understanding of primate spatial memory has been limited by the fact that studies of spatial memory in wild primates have tended to focus on navigation in large space, whereas studies of primates in captive and laboratory settings have principally focused on the ability of individuals to orient to and remember the location of objects in small-scale spaces. In this symposium, we examine the ability of monkeys and apes to internally represent spatial information across a range of spatial scales and compare species differences in the types of information used and integrated in forming a cognitive spatial map.

Symposium Contributors and Abstract titles:

Paul Garber and Francine Dolins: Introduction to the Symposium: Spatial Cognition in Non-Human Primates: The Scope of the Problems Facing Free-Ranging and Captive Primates Orienting to and Navigating in Small- and Large-Scale Space

Paul Garber and Leila Porter: The use of route-based mental maps during traveling and foraging in wild Bolivian saddleback tamarins (*Saguinus fuscicollis weddelli*)

Bernardo Urbani and Paul Garber: Foraging decisions in large- and small-scale space in wild white-faced capuchin monkeys (*Cebus capucinus*)

Karline R. L. Janmaat, Simone Ban, Roger Mundry and Christophe Boesch: The use of botanical knowledge by Tai chimpanzees in search for fruit.

Francine Dolins and Charles Menzel: Comparing captive chimpanzees' navigational strategies and spatial memory in virtual small- and large-scale space

Josep Call and Alenka Hribar: Great apes' strategies for locating hidden objects in small-scale space

Carlo De Lillo: Organizational factors in spatial working memory: A comparative analysis of humans and non-human primates