

INSTITUTE FOR SUSTAINABLE FUTURES
AND THE PAGE SCREEN STUDIO *HOST*

— A WORKSHOP WITH —

MARGARET WERTHEIM

4-6PM, **THURSDAY MARCH 21**, 2013

VENUE: **06.07.35** (DAB LEVEL 7)

RSVP BY WEDNESDAY MARCH 20:

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Margaret Wertheim is a prolific science writer and author of books on the cultural history of physics. With her twin sister Christine, Margaret founded **The Institute for Figuring** to engage the public in complex science and mathematical ideas through tactile making and play.

IMAGE: Students at the IFF's "Making Space" workshop at the Hayward Gallery's Wide Open Studio, with their hyperbolic boa.
[From a pattern by Keith Henderson.] <theiff.org>



Through activities such as cutting and folding paper, we affirm that the hands and eyes can serve as guides to developing the human mind. By inviting our audience to literally play with ideas, the IFF offers a new, hands-on approach to public science education that is at once intellectually rigorous, pedagogically rich, and aesthetically aware. — INSTITUTE FOR FIGURING

— TOPOLOGY + GEOMETRY WORKSHOP —

Ever wondered what's the difference between geometry and topology? In this workshop we'll explore these two great areas of mathematics by doing nifty things with paper, scissors and glue. Why, from a topologists point of view, is a coffee cup the same as a donut? What's the difference between a Euclidean and non-Euclidean space? Why does a hole in a surface make such a fundamental difference? Join us for an afternoon of mathematical play, as Margaret Wertheim, director of the Institute For Figuring, takes us through the foundations of how mathematicians think about spatial structures. The class will collectively construct a hyperbolic boa and the event will end with an explanation of why men and women have different a topological genus.

All material supplied (please bring scissors). Free event.