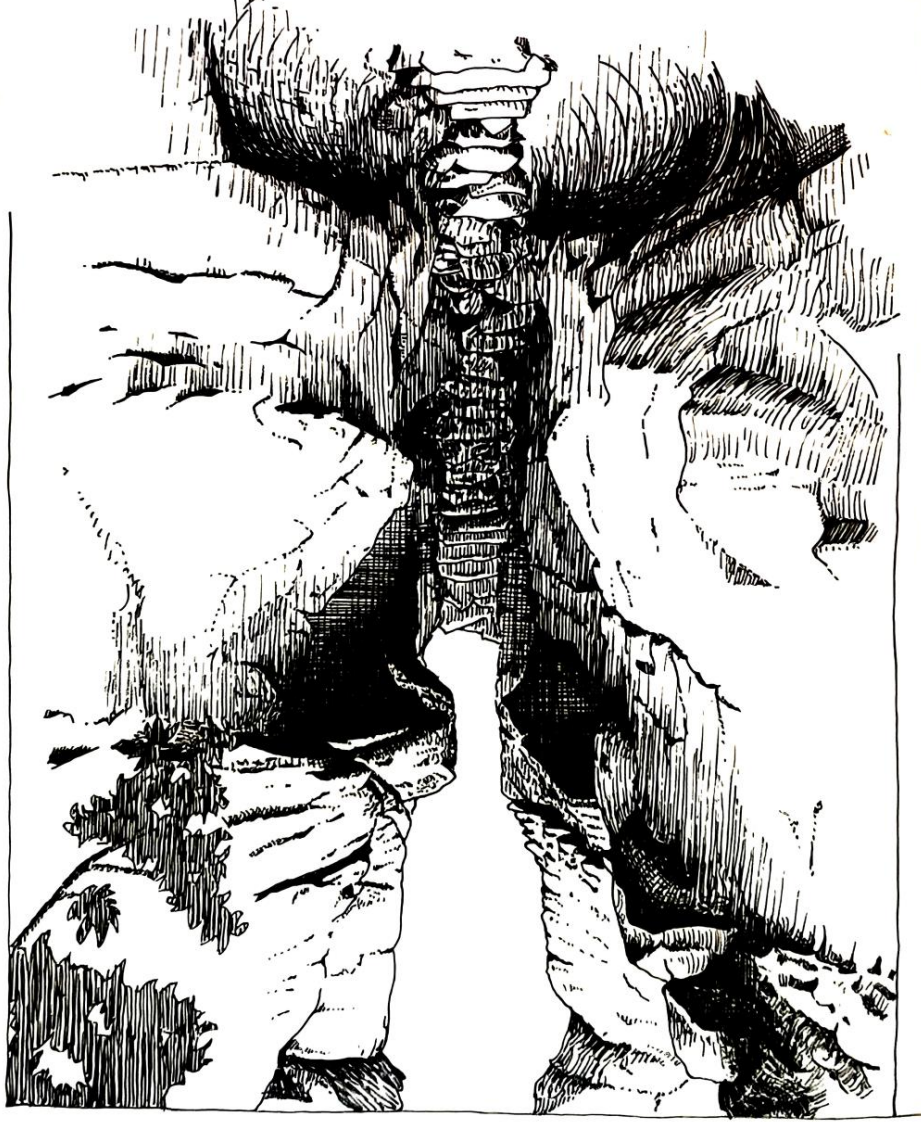


A Tour of Combinatorics
and Statistical Mechanics

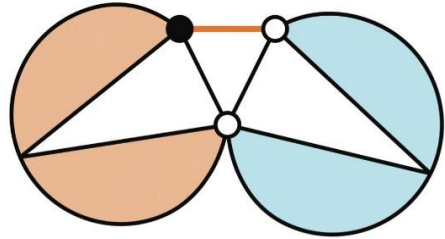
Symposium in memory of Richard Brak

7th of February, 2022

Evan Williams Theatre
Peter Hall Building
University of Melbourne



SILENT STREET, GRAHAMNS, AUS.
RB
4/91



Clockwise from top left: Guttmanfest 2015 in Newcastle (credit: Jesper Jacobsen), Richard's reconstruction of the throne room of the palace at Knossos, directing the group photo at Guttmanfest 2005 on Dunk Island (credit: Thomas Prellberg), a puffin in Iceland (credit: Richard Brak), Richard and Rachel at the Tarxien temple in Malta, a polygon bijection (from *A Universal Bijection for Catalan Structures*, 2018).

Program

- 8:15am Welcome**
- 8:30am Mireille Bousquet-Mélou
A mini-survey on walks in a cone
- 9:00am Thomas Prellberg
Staircase polygons revisited: an open question by Richard Brak
- 9:30am Stuart Whittington
Self-avoiding walks interacting with a surface and subject to a force
- 10:00am E. J. Janse van Rensburg
Pulling spiders
- 10:30am Morning tea**
- 11:00am Gary Iliev
Localization of semiflexible polymers near a penetrable interface
- 11:30am Chris Soteros
Entanglements in lattice polygons in tubes
- 12:00pm Andrew Rechnitzer
Trials and tribulations of preserving topology
- 12:30pm Lunch**
- 1:30pm Judy-anne Osborn
Richard Brak as role model
- 2:00pm Tony Guttmann
Spiral walks on the triangular lattice
- 2:30pm Iwan Jensen
Odds and ends about osculating paths
- 3:00pm Afternoon tea**
- 3:30pm Aleks Owczarek
Critical scaling of lattice polymers confined to a box
- 4:00pm Nicholas Beaton
The powered Catalan numbers
- 4:30pm Jan de Gier
The one-transit model
- 5:00pm Closing remarks**

Organisers: Nathan Clisby, Tim Garoni, Aleks Owczarek, Tony Guttmann.