

The banner features a photograph of a classical building with columns and arches on the left. The text 'RECREATIONAL MATHEMATICS COLLOQUIUM I' is written in large, bold, blue capital letters across the top. To the right, the dates 'April 29th - May 2nd 2009' and 'University of Évora' are written in red. A stylized yellow number '9' is positioned on the far right.

# RECREATIONAL MATHEMATICS COLLOQUIUM I

April 29th - May 2nd 2009  
University of Évora

Recreational Mathematics Colloquium I  
Departamento de Matemática, Universidade de Évora  
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## PROGRAM

### Wednesday, 29<sup>th</sup> April

8:30 - Welcome and registration

9:00 - Opening Session

9:30 - Rick's Tricky Six Puzzle

Richard Guy, University of Calgary

10:15 - Archimedes's Stomachion

Henrique Leitão, University of Lisbon

10:45 - Coffee-Break

11:15 - Winning Ways for Mathematically Losing Plays

Jorge Buescu, University of Lisbon

11:45 - Games on Power Networks Dispatch: The World as a Case Study

José Carlos Quadrado, ISEL

12:15 - The Generalisation Squared of Domino

Cosimo Cardellicchio

12:45 - Break for lunch

14:15 - Math and Films

Michele Emmer, University of Rome

15:00 - Strong Connections Between Chess and Maths

Alda Carvalho, ISEL

Carlos Santos, ISEC

15:30 - Coffee-Break

16:00 - Piet Hein, a Brilliant Mind

Natália Bebiano, University of Coimbra

F. J. Craveiro de Carvalho, University of Coimbra

16:30 - The Importance of Play

António Machiavelo, University of Porto

17:00 - Lozenge Tillings of Polygons

Ana Paula Cláudio, University of Lisbon

Ilda Perez, University of Lisbon

N. Pinto, University of Lisbon

N. Prehaz, University of Lisbon

J. Soares, University of Lisbon

18:00 - Welcome Cocktail

## Thursday, 30<sup>th</sup> April

### 9:30 - Multiple Pile Take-Away Games

Aviezri Fraenkel, Weizmann Institute of Science

### 10:15 - Descartes's Pedagogical Deck

Marisa Ferreira, University of Lisbon

Jorge Nuno Silva, University of Lisbon

### 10:45 - Coffee-Break

### 11:15 - Sangaku

Antonieta Constantino, Esc.Sec.Miraflores

### 11:45 - The Rainbow Game

Helena Sousa Melo, University of Azores

Ricardo Cunha Teixeira, University of Azores

### 12:15 - Art Through Functions

Maria da Graça Marques, University of Algarve

Marília Pires, University of Algarve

### 12:45 - Break for lunch

### 14:00 - Visit to Monsaraz

## Friday, 1<sup>st</sup> May

### 9:30 - Exploring the Fourth Dimension: "Flatland: the Movie" and the Geometric Art of Salvador Dali

Thomas Banchoff, Brown University

### 10:15 - Polyhedron Puzzles: Combinatorics and Groups

Jorge Rezende, University of Lisbon

### 10:45 - Coffee-Break

### 11:15 - Mathematical Games for the Blind

Carlota Dias, University of Lisbon

Jorge Nuno Silva, University of Lisbon

Pedro Palhares, University of Minho

### 11:45 - Card Tricks: Math vs Magic

Carlos Santos, ISEC

Jorge Nuno Silva, University of Lisbon

### 12:15 - "Zéfiro Explorador" - a Game Designed for Children Focusing Math Skills Training

Cristiana Vidal Accioly, University of Coimbra

Silvia Barbeiro, University of Coimbra

Aderito Araujo, , University of Coimbra

Maria João Santos, University of Coimbra

Michael Diniz, University of Coimbra

### 12:45 - Break for lunch

### 14:15 - Gardening and Lawns and Mazes

Richard Nowakowski, Dalhousie University

**15:00 - Stamping Patterns**

Arala Chaves, University of Oporto

15:30 - Coffee-Break

**16:00 - Some Medieval Problems**

Eurico Nogueira, New University of Lisbon

**16:30 - A Solitary Pebble Game**

Pedro Duarte, University of Lisbon

**17:00 - A Very Mathematical Card Trick**

Carlos Santos, ISEC

Jorge Nuno Silva, University of Lisbon

Pedro Duarte, University of Lisbon

20:00 - Conference Dinner

**Saturday, 2<sup>nd</sup> May**

**9:30 - In Tribute to Martin Gardner**

David Wolfe, Gustavus Adolphus College

**10:15 - Discover the Symmetries: an Interdisciplinary Project for the First Grade**

Andreia Hall, University of Aveiro

Carlota Simões, University of Coimbra

Constança Providência, University of Coimbra

10:45 - Coffee-Break

**11:15 - Solving Mathematical Puzzles on Saturday Afternoons**

Ana Maria de Almeida, University of Coimbra

**11:45 - Recreational Mathematics within the classroom: a Portuguese case-study**

Sandra Figo, EB23 Marquês de Pombal

Ana Maria de Almeida, University of Coimbra

**12:15 - Metromachia - An Ancient Pedagogical Game**

Isabel Catarino, ES Pinhal Novo

12:45 - Break for lunch

**14:15 - Mathematical Skills and Mathematical Games**

Dores Ferreira, University of Minho

Jorge Nuno Silva, University of Lisbon

Pedro Palhares, University of Minho

**15:00 - Origami's Geometry**

Liliana Monteiro, EB 2,3 D. António de Ataíde

**15:30 - Closing Session**