

WYNNE HARLEN

has held several high ranking positions in scientific education and research in the UK. She has an honorary position as Visiting Professor at the University of Bristol, England, although working from her home in Scotland. She acts as consultant to several primary/elementary school science projects in various countries and is currently committed to the IAP Scientific education Programme on the development of inquiry-based scientific education. She was awarded the OBE in 1991 and received a special award from distinguished service to science education by the ASE in 2001. She was a winner of the international Purkwa prize in 2008 and in 2011 received an award from the Mexican Ministry of Education and Innovation. She is the author of 28 books and of many journal articles and reports on scientific education, evaluation and student assessment. wynne@torphin.freeserve.co.uk

DANIEL WORMALD

is presently a Quality Learning Consultant and Curation Manager at the Natural History Museum (NHM), London, where he is in charge of the Investigate Centre. His career in education began in 1986 as a secondary school teacher. The creation of rich, affective, engaging experiences that promote learning has been a consistent theme in his career. He believes that learning is best when people are actively engaged in real activities, objects, situations and emotions. This led him to devise out-of-school activities and create a wide range of enquiries using historical, geographical and ethnographic examples. At the NHM he encourages visitors to handle and explore real specimens and scientific tools and to reflect about the nature of science, its processes and limitations as he believes this strategy will empower people to look critically at the science that affects their lives. D.Wormald@nhm.ac.uk

MARGARIDA AFONSO

is a teacher at Castelo Branco College of Education where is involved in in-service and initial teacher education (primary and kindergarten). She is a researcher at Instituto de Educação, Faculty of Science, Lisbon University. She has developed several research projects in different institutions, namely *Ciência Viva* and *Fundação Calouste Gulbenkian*. She has taken part in groups for the promotion and dissemination of science. She is consultant for education in *Fibonacci* project. margarida.afonso@ipcbr.pt

ANA V. RODRIGUES

is auxiliary Professor in the Department of the Education of the University of Aveiro. Member of the Research Centre Didactics and Technology in Education of Trainers [CIDTFF] since 1999. Member of the Technical Advisory Commission of the National Teacher Education Programme in Experimental Science Teaching for Basic Education Teachers (2006–2010). Director of the Integrated Sciences Education Center [CIEC] of the *Ciência Viva* primary school of V.N. Barquinha. arodrigues@ua.pt

MARISA AZUL

is a researcher at the Center for Functional Ecology, Coimbra University, where she carries out research in *Fungi* in the areas of Biotic Interactions, Biodiversity and Evolution, Ecology and Society. She coordinates and participates in several projects for the promotion and dissemination of science. She is the author of books for children: *Discover the Plants!*, *Let's take care of the Earth* and *From Seed to the Fruit*. She is consultant researcher and invited trainer in *Pollen* and *Fibonacci* projects. amjrazul@ci.uc.pt

EUROPEAN CONFERENCE



DEVELOPING INQUIRY SKILLS IN FORMAL AND NON-FORMAL ENVIRONMENTS

14TH / 15TH SEPTEMBER 2012

PAVILION OF KNOWLEDGE - CIÊNCIA VIVA LISBON, PORTUGAL



14TH SEPTEMBER FRIDAY

15h30 **RECEPTION**

16h00-16h30 **WELCOMING** | AUDITORIUM
Rosalia Vargas, Ciência Viva President

EUROPEAN PROJECTS

NETS-EU

Rossella Parente, Città della Scienza, Naples

FIBONACCI

Rosário Oliveira, Ciência Viva

16h30-17h20 **INQUIRY-BASED SCIENCE LEARNING
IN NON-FORMAL ENVIRONMENTS** | AUDITORIUM
Daniel Wormald, Natural History Museum, London

Coffee Break

17h40-18h10 **LEARNING SCIENCE AT SCHOOL:
TALK AND CHALK VS INQUIRY** | AUDITORIUM
Margarida Afonso, Castelo Branco College of Education

18h10-18h40 **SCIENCE EDUCATION IN FORMAL AND NON-FORMAL
ENVIRONMENTS: THE CASE OF PRIMARY SCHOOL OF
V.N. BARQUINHA** | AUDITORIUM
Ana V. Rodrigues, Dpt. of Education, University of Aveiro

POSTER EXHIBITION: EUROPEAN PROJECTS



15TH SEPTEMBER SATURDAY

11h00-12h00 **PROGRESSION IN INQUIRY SKILLS
AND HOW TO HELP IT** | AUDITORIUM
Wynne Harlen, University of Bristol, UK

12h00-12h30 **EXPERIENCING AND DISCOVERING THE
MEDITERRANEAN IN KINDERGARTEN AND
PRIMARY EDUCATION** | AUDITORIUM
Marisa Azul, Centre For Functional Ecology, Un. Coimbra

Lunch

14h00-14h45 **INQUIRY-BASED ACTIVITIES** Parallel sessions.
15h00-15h45

HUMAN BODY AND HEALTH | ROOM A
Inês Oliveira, Ciência Viva

INVESTIGATING BATS | ROOM B
Sofia Lourenço, Raquel Alcaria, Ciência Viva

**CONDUCTORS AND ISOLATORS
(CORK AND CLAY)** | ROOM C
Margarida Afonso, Castelo Branco College of Education
Inês Montalvão, Ciência Viva

MARINE ECOSYSTEMS | ROOM D
Raquel Gaspar, Viver a Ciência
Cláudia Faria, Institute of Education, Lisbon Univ.

SYMMETRY IN PORTUGUESE PAVEMENT | ROOM E
Renata Carvalho, Institute of Education, Lisbon Univ.

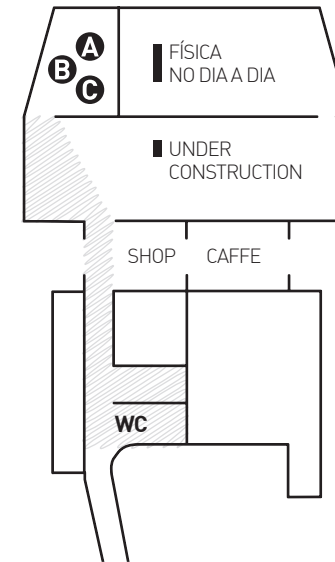
INVESTIGATING ANTS | ROOM F
Eduardo Sequeira

POSTER EXHIBITION: EUROPEAN PROJECTS

Coffee Break

16h15 -17h00 **PHYSICS SHOW** | AUDITORIUM
Fábrica - Ciência Viva Science Centre, Aveiro

GROUND FLOOR



FIRST FLOOR



PAVILHÃO DO CONHECIMENTO - CIÊNCIA VIVA

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