

# A conference organized by the British Society for Research into Learning Mathematics

University of London

Friday 3<sup>rd</sup> & Saturday 4<sup>th</sup> March 2017









Friday 3<sup>rd</sup> March 2017

- ✓ Plenary conferences led by University teachers or people belonging to Institutes of Education
- 'Exploring the mathematics education research traditions in UK and France and their impacts on policy and practice in each country'  
*Isabelle Bloch & Ken Ruthven*
- 'Mathematics teachers' practices and professional development: sharing and crossing theoretical approaches'  
*Maha Abboud, Barbara Jaworski, Alf Coles & Aline Robert*
- ✓ Discussion groups





Anne-Marie EYMARD & Christine DEMEUSOIS - IREM of CLERMONT-FERRAND - FRANCE  
BSRLM - University of London - Friday 3<sup>rd</sup> March 2017 - LONDON - UK





Saturday 4<sup>th</sup> March 2017

✓ Plenary panel

A summary of the key points discussed during the two previous conferences

*Michèle Artigue & Celia Hoyles*

✓ Thirty-four parallel presentation sessions  
30 or 60 minutes each

*Participants: Teachers in primary, middle and high schools,  
University teachers, PhD students*

- Presenting research papers
- Leading working groups or research workshops





# Our presentation

# Teaching Mathematics in English

Examples of mathematics activities  
in French European classes in lycée



# We are...

- **Anne-Marie EYMARD**

anne-marie.eymard@ac-clermont.fr

maths teacher

collège de La Comté, Vic Le Comte, France

pupils from 11 to 15 (middle school)

- **Christine DEMEUSOIS**

demeusois@free.fr

maths teacher

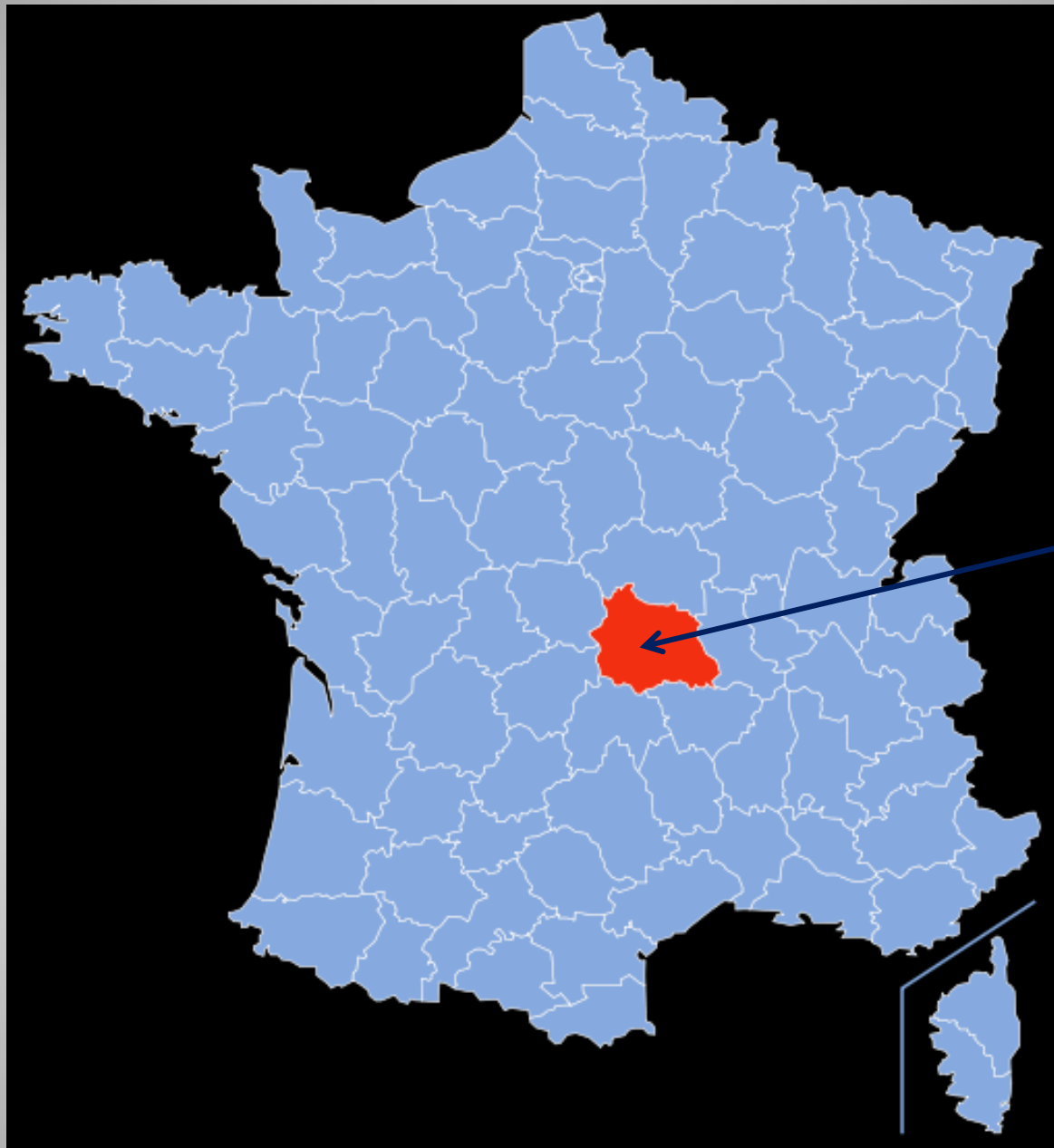
lycée Jeanne d'Arc, Clermont-Ferrand, France

pupils from 15 to 18 (high school)

- Members of...

**the IREM of Clermont-Ferrand, France**





Clermont-  
Ferrand  
63  
Puy de Dôme



# IREM

## Institute for Research into Teaching Mathematics

- thirty-one académies in France  
(académie = local education authority)
- nearly one IREM per académie
- members:
  - maths teachers
  - from state & public schools
  - essentially from middle & high schools
  - meeting approximately five times a year
  - volunteering to prepare learning activities
- many groups working on different topics



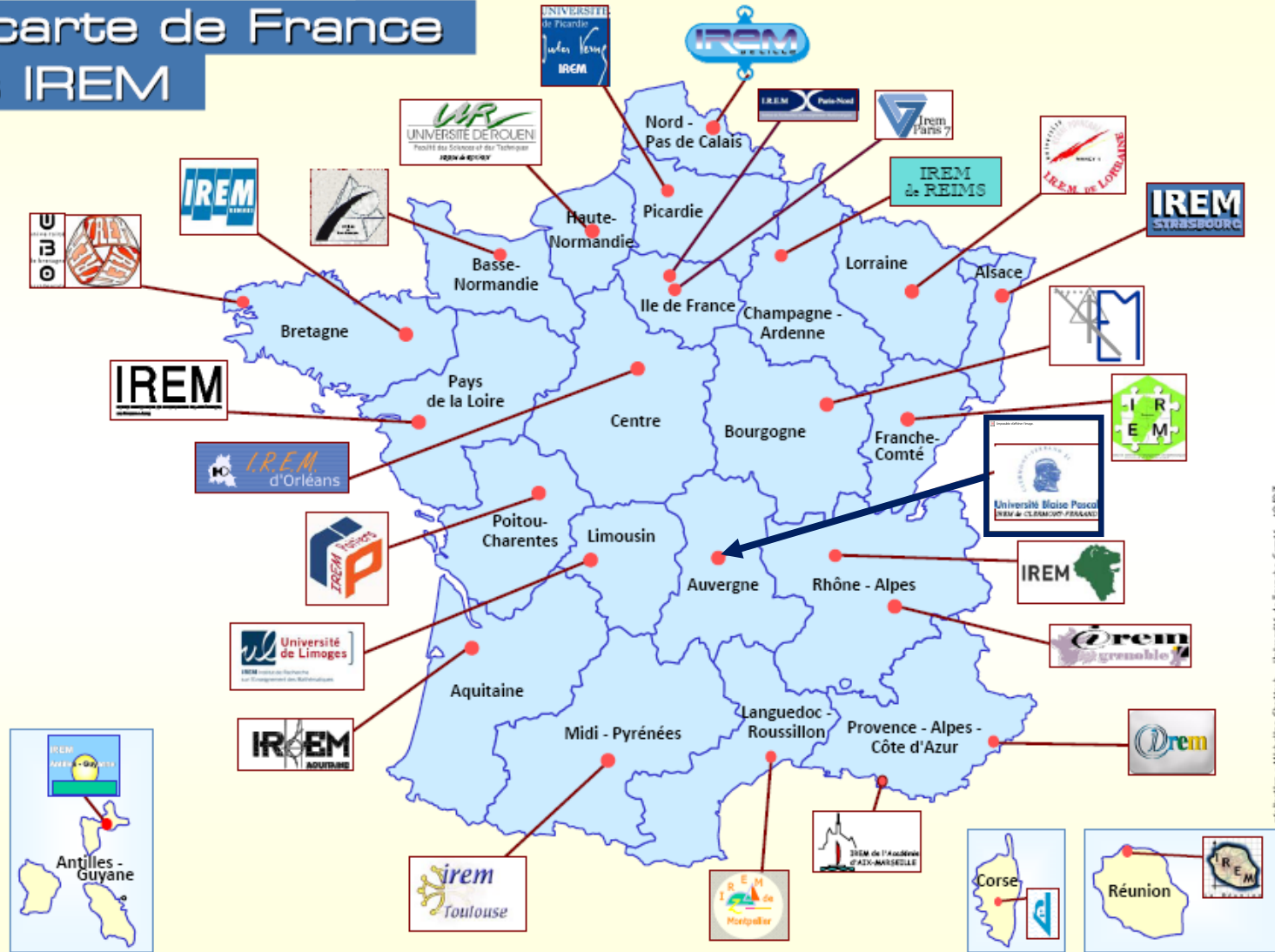
# 31 académies in France



# 28 IREMs in France

## La carte de France des IREM

Institut de Recherche sur l'Enseignement des Mathématiques



réalisation : Michèle Chartoux - Université de Franche-Comté - 10/07





We have been invited here  
as members of an IREM group  
working on  
the teaching of maths in English,  
and preparing learning activities,  
most of them being intended  
for pupils of European sections.

# European section

- special curriculum in lycée
- optional
- for pupils with good language skills
- 2 extra hours per week
- dedicated to the study of a subject (biology, economics, geography, history, maths, science... )
- taught in a foreign language (English, German, Italian, Spanish... )
- final oral exam in baccalauréat in front of a jury of two teachers (maths and... English)

# Activity

## A bunch of card games

→ memorizing the mathematical vocabulary

about

numbers and calculations

algebraic expressions and calculations

probabilities

geometry

# Contents

## Numbers and calculations

"Snake" - Rules: 1 page - 33 double cards: 2 pages

"Matching Game", "Memory", "Mistigri" - Rules: 2 pages - 32 pairs of cards: 2 pages

## Algebraic expressions and calculations

"Snake" - Rules: 1 page - 33 double cards: 2 pages

"Matching Game", "Memory", "Mistigri" - Rules: 2 pages - 32 pairs of cards: 2 pages

## Probabilities

"Word panelling" - Rules: 1 page - 16 cards: 2 pages

"Matching Game", "Memory", "Mistigri" - Rules: 2 pages - 15 pairs of cards: 3 pages

## Geometry Unit 1

"Snake" - Rules: 1 page - 33 double cards: 2 pages

"Matching Game", "Memory", "Mistigri" - Rules: 2 pages - 32 pairs of cards: 2 pages

## Geometry Unit 2

"Snake" - Rules: 1 page - 33 double cards: 2 pages

"Matching Game", "Memory", "Mistigri" - Rules: 2 pages - 32 pairs of cards: 2 pages

*IREM Clermont-Ferrand - "Math in English" - Mai 2016*





Anne-Marie EYMARD & Christine DEMEUSOIS - IREM of CLERMONT-FERRAND - FRANCE  
BSRLM - Birkbeck College, University of London - Saturday 4<sup>th</sup> March 2017 - LONDON - UK





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AT ST PANCRAS INTERNATIONAL




Anne-Marie EYMARD & Christine DEMEUSOIS - IREM of CLERMONT-FERRAND - FRANCE  
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# How combining the pleasant with the useful?



By spending a whole day   
walking through London in the sun!





Anne-Marie EYMARD & Christine DEMEUSOIS - IREM of CLERMONT-FERRAND - FRANCE  
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**THE BRITISH MUSEUM**

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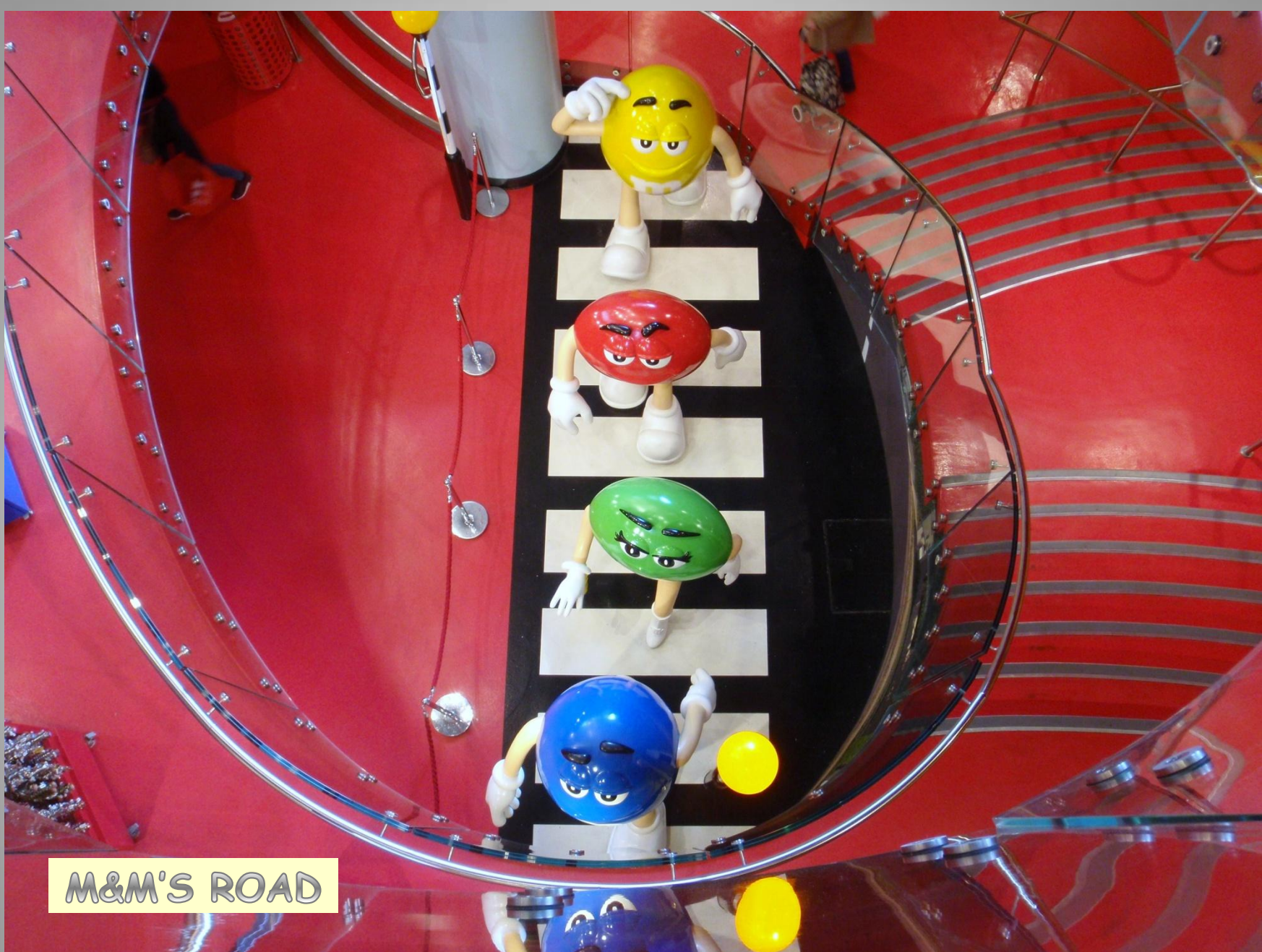




# THE ROSETTA STONE

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## M&M'S ROAD

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M&M'S ROAD

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SOHO

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## THE CHINESE DISTRICT

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TRAFALGAR SQUARE

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# COVENT GARDEN MARKET

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COVENT GARDEN MARKET

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THE LONDON EYE ON THE THAMES

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**BIG BEN**

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BIG BEN

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WESTMINSTER ABBEY

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## HORSE GUARDS

Anne-Marie EYMARD & Christine DEMEUSOIS - IREM of CLERMONT-FERRAND - FRANCE  
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THE TATE MODERN

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THE CITY FROM THE 10<sup>th</sup>  
FLOOR OF THE TATE MODERN

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SAINT PAUL'S CATHEDRAL  
THE MILLENIUM BRIDGE  
THE TATE MODERN



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## THE MILLENIUM BRIDGE

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# TOWER BRIDGE



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TEA TIME

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## LEADENHALL MARKET (THE CITY)

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# THE CHEESE GREATER (THE CITY)



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THE CHEESE GREATER (THE CITY)

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THE WALKIE TALKIE (THE CITY)

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**WILLIS BUILDING (THE CITY)**

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THE SCALPEL (THE CITY)

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THE GHERKIN (THE CITY)

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WHISKY TIME

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Thank you very much for your attention.

A special thanks to Thierry Lambre,  
who gave us the opportunity  
to participate to this conference,  
and supported us in the organization  
of this wonderful trip.

Anne-Marie EYMARD  
anne-marie.eymard@ac-clermont.fr

&

Christine DEMEUSOIS  
demeusois@free.fr

