

QMSS2 Immigration and Population Dynamics

Summer School

**PROJECTION METHODS FOR ETHNICITY AND  
IMMIGRATION STATUS**

School of Geography, University of Leeds, Leeds LS2 9JT, UK

2 – 9 July 2009

The Quantitative Methods in the Social Sciences Seminars and Summer Schools, Series 2 (QMSS2) are funded by the European Science Foundation and organized by the Cathie Marsh Centre for Census and Survey Research with additional support from the ESRC research award RES-165-25-0032 (1/10/07 to 30/9/09) *What Happens When International Migrants Settle? Ethnic Group Population Trends and Projections for UK Local Areas*. Web pages:

<http://www.geog.leeds.ac.uk/research/projects/migrants.html>.

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## **ORGANIZERS:**

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Frans Willekens (Netherlands Interdisciplinary Demographic Institute)

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On accommodation matters contact:

Calum Carson (School of Geography, University of Leeds)

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## **TOPICS COVERED IN THE SUMMER SCHOOL**

The focus of the training workshop will be on the impact of world migration on European countries' population composition and distribution. The projection methods quantify the demographic consequences of (a) international migration by ethnicity and (b) differential levels and patterns of fertility and mortality by ethnicity. The workshop will address the demographic consequences in terms of (a) the size, composition and spatial distribution of the population, and (b) the broader issue of the likely life course of members of the evolving population. Multistate projection (cohort component) models are applied to determine population change and the differences between successive generations. A multistate microsimulation model that is consistent with the multistate cohort component model will be used to determine the life paths of members of the evolving population and to prepare probabilistic projections. The microsimulation model may also be extended to include personal attributes that cannot be included in the macro-simulation (projection) model. Particular attention will be paid to the estimation of demographic parameters from incomplete data.

The workshop takes 7 days (5 days plus weekend activities) and will be organized at the University of Leeds. Instructors will be Phil Rees (University of Leeds), Tom Wilson (University of Queensland) and Frans Willekens (NIDI) with assistance from Paul Norman, Peter Boden, Pia Wohland, Belinda Wu and Jianhui Jin (University of Leeds). Part A of the Summer School (Thursday afternoon, Friday and Monday) covers basic population change concepts, life table models, projection methods, multistate projection models with applications and methods of estimating projection inputs from data. Part B (Tuesday, Wednesday) covers microsimulation and estimation methods. We conclude with a set of consultations where participants talk about their research with staff on Thursday morning.

## LIST OF STAFF

<i>Staff member</i>	<i>Email address</i>
Philip Rees	<a href="mailto:p.h.rees@leeds.ac.uk">p.h.rees@leeds.ac.uk</a>
Frans Willekens	<a href="mailto:willekens@nidi.nl">willekens@nidi.nl</a>
Tom Wilson	<a href="mailto:t.g.wilson@hotmail.com">t.g.wilson@hotmail.com</a>
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Belinda Wu	<a href="mailto:b.wu@leeds.ac.uk">b.wu@leeds.ac.uk</a>

## LIST OF PARTICIPANTS

<i>Participant</i>	<i>Email address</i>	<i>Day for short biography</i>
Guy Abel	<a href="mailto:G.J.Abel@soton.ac.uk">G.J.Abel@soton.ac.uk</a>	Thursday
Christina Balan	<a href="mailto:itte7@yahoo.com">itte7@yahoo.com</a>	Friday
Maja Biernacka	<a href="mailto:mmbiernacka@tlen.pl">mmbiernacka@tlen.pl</a>	Thursday
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Krešimir Žažar	<a href="mailto:kzazar@ffzg.hr">kzazar@ffzg.hr</a>	Friday

## **JOINING INSTRUCTIONS**

### **Pre-course Symposium on *The Dynamics of Populations Large and Small*, 1 July 2008**

The School of Geography at the University of Leeds will be holding a Symposium organized by John Stillwell and Martin Clarke as an event to mark Phil Rees's retirement. Participants at the QMSS2 Summer School may wish to attend the Symposium which will be held on the day before the course starts. Please indicate on the registration form whether you would like to attend this symposium and whether you would like us to book you accommodation. You will need to pay for accommodation for 30 June. There will be no charge for attending the symposium itself (includes lunch).

### **Arrival on the afternoon of Tuesday 30<sup>th</sup> June 2009**

#### For those attending the Pre-course Symposium

Arrival at the University of Leeds

Register with Calum Carson, Research Cluster Administrator, in the School of Geography (Office G23, Main Building) 1400-1700

Directions to the IBIS Hotel for 30 June and 1 July, to local restaurants/cafes and instructions on how to get to Weetwood Hall on 1 July for the Symposium will be provided.

### **Arrival on the afternoon of Wednesday 1st July 2009**

#### For those not attending the Pre-course symposium

Arrival at the University of Leeds

Register with Calum Carson, Research Cluster Administrator, in the School of Geography (Office G23, Main Building) 1400-1700

Directions will be given to get to the IBIS Hotel.

### **Arrival on the morning of Thursday 2<sup>nd</sup> July 2009**

#### For those not attending the Pre-course symposium

Arrival at the University of Leeds

Register with Calum Carson, Research Cluster Administrator, in the School of Geography (Office G23, Main Building) 0900-1300

Directions will be given to get to Ellerslie Hall (250m distant)

### **Maps and advice on transport**

These are provided at the end of the document.

## **SCHEDULE FOR SUMMER SCHOOL**

### **Thursday 2 July 2009 Summer School: Day One**

1400-1415, Room B.01, Geography East Building

*Welcome, Overview and Administrative Matters*

Lecturer: Phil Rees

1415-1500, Lecture, Room B.01, Geography East Building

*Basics of demographic analysis (1): Population change, population accounts, age and time*

Lecturer: Phil Rees

1500-1545, Lecture, Room B.01, Geography East Building

*Basics of demographic analysis (2): Life tables, cohort-component projections*

Lecturer: Pia Wohland

1545-1615, Tea/Coffee, Foyer, Geography East Building

1615-1700, Lecture, Room B.01, Geography East Building

*Principles of stochastic population projection*

Lecturer: Nico Keilman (University of Oslo)

1700-1745, Lecture, Room B.01, Geography East Building

*ARIMA forecasting models*

Lecturer: Nico Keilman (University of Oslo)

1745-1830, Foyer, Geography East Building

*Presentations of short biographies by 8 participants*

*Discussion of the day's work.*

1900, Dinner, University House, St. George's Room, Second Floor

Host: Phil Rees

## Friday 3 July 2009 Summer School: Day Two

0900-1030, Lecture and Practical, Masters Computer Lab, Room G.19, Geography East Building

*A short introduction to R, Exercise in life table construction in R*

Pia Wohland

Demonstrators: Pia Wohland, Phil Rees, Jianhui Jin

1030-1100, Coffee/tea, Foyer, Geography East Building

1100-1145, Practical, Masters Computer Lab, Room G.19, Geography East

*Doing some stochastics*

Demonstrators: Nico Keilman, Phil Rees, Jianhui Jin

1145-1230, Lecture, Room B.01, Geography East Building

*Multi-regional and bi-regional projection methods*

Lecturer: Tom Wilson (University of Queensland)

1230-1330, Lunch: Refectory (Vouchers)

1330-1415, Lecture, Room B.01, Geography East Building

*A review of ethnic population projection models*

Lecturer: Phil Rees

1415-1500, Lecture, Room B.01, Geography East Building

*Projections of the Australian population by Indigenous status*

Lecturer: Tom Wilson

1500-1530, Tea/Coffee, Foyer, Geography Main Building

1530-1730, Practical, Masters Computer Lab, Room G.19, Geography East Building

*Practice with the UK ethnic projections model (group work)*

*Reporting on scenarios (groups)*

Demonstrators: Phil Rees, Pia Wohland, Jianhui Jin, Tom Wilson

1630-1645, Masters Computer Lab, Room G19, Geography East Building

*Demonstration of the New South Wales Population Projection Model*

Demonstrator: Tom Wilson

1730-1830, Discussion of the day's work, Foyer Geography East Building

*Presentations of short biographies by 8 participants*

*Discussion of the day's work.*

1900, Buffet Dinner, Ellerslie Hall

Host: Pia Wohland

**Saturday 4 July 2009 Summer School: Day Three**

1000, Start walk at Ellerslie Hall

Guided walk with Phil Rees around the centre of Leeds using:

John Stillwell, Rachael Unsworth (2008) *Around Leeds: A City Centre Reinvented*.

Leeds: Leeds University Press.

1230-1330, Lunch: Da Mario's Pizzeria, The Headrow

Host: Phil Rees

Afternoon and evening: free

**Sunday 5 July 2009 Summer School: Day Four**

0930 Minibus to pick up participants at Ellerslie Hall.

*A Day in the Dales with Paul Norman and Phil Rees*

A walk in Upper Wharfedale ending in Kettlewell for Dinner

Hosts: Paul Norman, Phil Rees



**Monday 6 July 2009 Summer School: Day Five**

0900-0945, Lecture, Room B.01, Geography East Building

*The estimation of ethnic fertility*

Lecturer: Paul Norman

0945-1030, Lecture, Room B.01, Geography East Building

*The estimation of ethnic mortality*

Lecturer: Pia Wohland

1030-1100, Coffee/tea, Foyer, Geography East Building

1100-1145, Lecture, Room B.01, Geography East Building

*The estimation of international migration by ethnicity*

Lecturer: Peter Boden (University of Leeds)

1145-1230, Lecture, Room B.01, Geography East Building

*The estimation of internal migration by ethnicity*

Lecturer: Phil Rees (University of Leeds)

1230-1330, Lunch: Refectory (Vouchers)

1400-1530, Practical, Masters Computer Lab, Room G.19, Geography East Building

Groups of four participants will choose one of the following simple exercises:

*Doing your own ethnic fertility estimates*

*Doing your own ethnic mortality estimates*

*Doing your own ethnic immigration estimates*

*Doing your own ethnic internal migration estimates*

Demonstrators: Paul Norman, Pia Wohland, Peter Boden, Phil Rees, Jianhui Jin

1530-1600, Tea/Coffee, Foyer, Geography East Building

1600-1700, Practical, Masters Computer Lab, Room G.19, Geography East Building

Groups will develop a programme for estimating ethnic projection inputs for their own countries

Demonstrators: Paul Norman, Pia Wohland, Peter Boden, Phil Rees, Jianhui Jin

1700-1730, Group reports, Room B.01, Geography East Building

*Groups will report on their estimation work*

1730-1800, Discussion of the day's work, Foyer, Geography East Building

1900, Dinner, University House, St. George's Room, Second Floor

Host: Peter Boden

## **Tuesday 7 July 2009 Summer School: Day Six**

0900-0945, Lecture, Room B.01, Geography East Building

*Microsimulation (1): Population reconstruction and an application for water demand modelling*

Lecturer: Phil Rees and Jianhui Jin (University of Leeds)

0945-1030, Lecture, Room B.01, Geography East Building

*Microsimulation (2): Microsimulation in continuous time-waiting time distributions*

Lecturer: Frans Willekens (NIDI)

1030-1100, Coffee/tea, Foyer, Geography East Building

1100-1145, Lecture, Room B.01, Geography East Building

*Microsimulation (3): Dynamic population models and an application for Leeds*

Lecturer: Belinda Wu (University of Leeds)

1145-1230, Lecture, Room B.01, Geography, East Building

*Microsimulation (4); Detailed population projection methods: the MicMac method*

Lecturer: Frans Willekens

1230-1330, Lunch: Refectory (Vouchers)

1330-1530, Group work, B.01, Foyer (two groups) and G12, Geography East Building

*Designing your own microsimulation model*

Group work: discussion in groups

Tutors: Frans Willekens, Phil Rees, Jianhui Jin, Belinda Wu

1530-1600, Tea, Foyer, Geography East Building

1600-1730, Discussion, Room B.01, Geography East Building

*Designing your own microsimulation model*

Group work: Discussion of findings.

Tutors: Frans Willekens, Phil Rees, Jianhui Jin

1900, Dinner, University House, St. George's Room, Second Floor

Host: Frans Willekens

### **Wednesday 8 July 2009 Summer School: Day Seven**

0900-0945, Lecture, Room B.01, Geography East Building  
*Estimation of migration: a model-based approach (log-linear model)*  
Lecturer: Frans Willekens (NIDI)

0945-1030, Lecture, Room B.01, Geography East Building  
*Estimation of migration using quantitative and qualitative data (expert opinions)*  
Lecturer: Frans Willekens

1030-1100, Coffee/tea, Foyer, Geography East Building

1100-1145, Lecture, Room B.01, Geography East Building  
*Estimation of migration rates: the application of transition rate models*  
Lecturer: Frans Willekens

1145-1230, Lecture, Room B.01, Geography East Building  
*Estimation of migration rates: the application of transition rate models, continued*  
Lecturer: Frans Willekens

1230-1330, Lunch: Refectory (Vouchers)

1400-1530, Practical, Masters Computer Lab, Room G.19, Geography East Building  
*Doing your own estimation using log-linear models (with offset)*  
Demonstrators: Frans Willekens, Phil Rees, Jianhui Jin

1530-1600, Tea, Foyer, Geography East Building

1600-1730, Practical, Masters Computer Lab, Room G.19, Geography East Building  
*Doing your own estimation using transition rate models*  
Demonstrators: Frans Willekens, Phil Rees, Jianhui Jin

1730-1800, Discussion of the day's work, Foyer, Geography East Building

1900, Dinner, University House, St. George's Room, Second Floor  
Hosts: Phil Rees, Frans Willekens, Pia Wohland

### Thursday 9 July 2009 Summer School: Day Eight

Consultation sessions, Foyer, Geography East Building and Offices

*Discuss your research with the Leeds and NIDI experts*

We will organise a timetable for you to talk to members of the Summer School staff individually for 20 minutes. There are 56 slots available and we will organize a sign up list on Wednesday so that you can (on average) have four individual discussions.

Expert	Location	0900-0915	0915-0930	0930-0945	0945-1000	1015-1030	1100-1115	1115-1130	1130-1145
Frans Willekens	Room G12								
Phil Rees	Foyer								
Paul Norman	Room G01								
Peter Boden	Foyer								
Pia Wohland	Foyer								
Tom Wilson	Foyer								
Jianhui Jin	Computer Lab								

1030-1100, Coffee/tea, Foyer, Geography East Building

1200-1230 Closing discussion, Room B.01, Geography East Building

## Reading List

Prior to the Summer School participants should read the following text which introduces basic demography:

Rowland, D. (2003) *Demographic Models and Concepts*. Oxford: Oxford University Press.

A full online reading list on basic demography is available online at:

<http://lib5.leeds.ac.uk/rlists/geog/geog3031.htm>

For an introduction to multiregional demography, see

Rogers, A. (1985) [Regional Population Projection Models](#). Beverly Hills, CA: Sage Publications

For the full mathematics see (not for the faint hearted):

Rogers, A. (1995) [Multiregional Demography: Principles, Methods and Extensions](#). Wiley, Chichester

For the best explanation of multiregional demography, see:

Willekens, F. and Rogers, A. (1978) [Spatial Population Analysis: Methods and Computer Programs](#). International Institute for Applied Systems Analysis, Laxenburg

For reviews of the population projections field, see

Wilson, T. and Rees, P. (2005) Recent developments in population projection methodology: a review. [Population, Space and Place](#), 11, 337-360.

Booth, H. (2006) Demographic forecasting: 1980 to 2005 in review. *International Journal of Forecasting* 22(3): 547-581.

For an overview of ethnic projections see:

Haskey J (ed.). 2002. *Population Projections by Ethnic Group: A Feasibility Study*. Stationery Office: London. Online at:

[http://www.statistics.gov.uk/downloads/theme\\_population/SMPS\\_67\\_v2.pdf](http://www.statistics.gov.uk/downloads/theme_population/SMPS_67_v2.pdf)

For a review of ethnic projections and the third demographic transition, see:

Coleman, D. (2006) Immigration and ethnic change in low-fertility countries: A third demographic transition. *Population and Development Review* 32(3):401-446.

For an introduction to microsimulation in continuous time

Willekens, F. (2009) Continuous-time microsimulation in longitudinal analysis. In: A. Zaidi, A. Harding and P. Williamson eds. *New Frontiers in Microsimulation Modelling*, Ashgate, Farnham, Surrey, UK. (Book released during 2<sup>nd</sup> International Microsimulation Conference, Ottawa, June 2009).

For a review of the microsimulation model in MicMac

Gampe, J., S. Zinn et al. (2009) The microsimulation tool of the MicMac project. Paper presented at the 2nd General Conference of the International Microsimulation Association, Ottawa, 8-10 June 2009

For a review of estimation of migration using quantitative and qualitative data.

Willekens, F. (2008) Models of migration. In: J. Raymer and F. Willekens (eds.) *International Migration in Europe: Data, Models and Estimates*. Wiley, Bognor Regis, West Sussex, UK.

For an introduction to R, see:

Home page of the R project: <http://www.r-project.org/> - lots of useful stuff

An introduction to R: <http://cran.r-project.org/doc/manuals/R-intro.pdf>

Braun, W.J. and Murdoch, D.J. (2007) *A First Course in Statistical Programming with R*. Cambridge: Cambridge University Press. ISBN-13: 9780521694247. £24.99

### **Username and Library Arrangements**

Participants will be supplied with University of Leeds guest usernames and passwords to facilitate access to the University network, the University Library resources and the School's computers. Usernames will become valid on 29 June 2009 and last until 10 July 2009. You will need to fill in forms and sign a set of terms and conditions. If you have not done so before the Summer School, please do so on Thursday 2 June.

### **Table of Meal Locations**

Date	Breakfast	Lunch	Dinner
Thursday 2 July			University House
Friday 3 July	Refectory	Refectory	Ellerslie Common Room
Saturday 4 July	Senior Common Room	Da Marios, The Headrow	Free
Sunday 5 July	Senior Common Room	Dales Pub	Dales Pub
Monday 6 July	Refectory	Refectory	University House
Tuesday 7 July	Refectory	Refectory	University House
Wednesday 8 July	Refectory	Refectory	University House
Thursday 9 July	Refectory		

## **ADDRESS AND TELEPHONE DETAILS**

School of Geography, University of Leeds, Leeds LS2 9JT, UK

Tel + 44 (0)113 343 3300 (Reception)

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Tel +44 (0)113 343 3341 (Phil Rees)

Fax@ +44 (0)113 343 3308

Web: <http://www.geog.leeds.ac.uk/>

Ellerslie Hall, University of Leeds, Leeds, UK

28-34 Lyddon Terrace, Leeds

Tel +44 (0)113 343 5703 (Hall residence office)

Web: [http://www.leeds.ac.uk/accommodation/your\\_ellerslie.html](http://www.leeds.ac.uk/accommodation/your_ellerslie.html)

Hotel IBIS, Marlborough Street 23, Leeds, LS1 4PB, UK

Tel +44 (0)113 220 41000, Fax +44 113 220 4110

Web: <http://www.accorhotels.com/gb/hotel-3652-ibis-leeds-centre/index.shtml>

Weetwood Hall, Conference Centre & Hotel

Otley Road, Leeds, LS16 5PS

Tel +44 (0)113 230 6000

Fax: +44 (0)113 230 6095

Web: <http://www.weetwood.co.uk/>

## **TRAVEL ADVICE**

### **Conference Location**

The conference is being held in the School of Geography Eat Building (please see campus map provided). Accommodation is in Ellerslie Hall which is also shown on the map.

### **Travel**

The campus is approximately half a mile from the city centre on Woodhouse Lane, the A660. Numbers 1 & 95 busses leave from Infirmary Street, near the City Railway Station. There are frequent buses from the central bus station including numbers 28, 56, 96, 97 (timetables for which you can find at <http://www.wymetro.com/BusTravel/BusTimetables/001.htm>). Car parking on campus (subject to availability) is £5.00 per day via the main entrance on Woodhouse Lane. Parking on Saturday & Sunday is free. There is free street parking around the university and the accommodation but this is usually full between Monday & Friday.

You can purchase daily tickets on the buses for unlimited travel for £5.00, and weekly tickets for £17 (please see <http://www.firstgroup.com/ukbus/yorkhumber/leeds/fares/firstweek.php> for more information).

There is a free bus service running every few minutes Monday to Saturday linking the railway station, city centre and the south end of the University Campus. The red bus has 'Free City Bus' written along the side. More details can be found at <http://www.wymetro.com/BusTravel/FreeTownAndCityBuses/>

### **Leeds/Bradford Airport to the University/Weetwood Hall:**

To get to the University and/or Weetwood Hall from the Airport take the Number 797 either to Leeds City Centre Bus Station or 'The Headrow' (ask the driver to let you know when to get off), and take either the Number 1, 96, 95, or 97 for Weetwood Hall (these can also be used for the University), as well as (just for the University) the Number 56 or 28.

Alternatively, you can also ring for a taxi (see the numbers below for some recommended taxi companies).

### **Leeds/Bradford Airport to the IBIS Hotel:**

To get to the IBIS Hotel from the Airport take the Number 797 bus and ask the driver to notify you at which stop to get off.

Alternatively, you can also ring for a taxi (see the numbers below for some recommended taxi companies).

### **Leeds City Train Station to the University/Weetwood Hall:**

To get to the University and Weetwood Hall from the Train Station via bus take either the Number 95 (the bus shelter directly in front of the main entrance) or the Number 1 (cross the road directly in front of the train station and go down the steps, turn left at the bottom and wait at the bus shelter). For the University you can also take the 'Free City Bus' (more details can be found at the link above), or alternatively to both there is a taxi stand just outside of the Station.

To get to the IBIS Hotel from the Train Station, you can either catch the 'Free City' Bus' (ask the driver where you should get off), or get a taxi.

### **Leeds City Train Station to the IBIS Hotel:**

To get to the IBIS Hotel from the Train Station, you can either catch the 'Free City' Bus' (which passes close by the Hotel: ask the driver where you should get off), or call for a taxi.

### **IBIS Hotel to Ellerslie Hall/School of Geography:**

There are a number of ways to get to the University from the IBIS Hotel. It is relatively easy to walk (see the map attached for the route), and if you would like to take the bus there is a free City Bus that passes close to the hotel (the staff will be able to tell you exactly where) and which passes by the south end of the University Campus (ask the driver for the exact stop, and follow the sign-posted Campus maps to Ellerslie Hall/the School of Geography upon your arrival). Leeds City Centre is only a ten minute walk from the hotel, and from here you can catch a number of buses to the University, including the number 1, 56, 95, 96 and 97. As with the City Bus, follow the sign-posted Campus maps to Ellerslie Hall/the School of Geography upon your arrival.

Alternatively, you can also ring for a taxi (see the numbers below for some recommended taxi companies).

### **IBIS Hotel to Weetwood Hall:**



To get from the IBIS Hotel to Weetwood Hall, it is recommended that you walk the ten-minute walk into Leeds City Centre and take either the Number 1, 96, 95, 97 to Weetwood Hall. Any of these buses can also be used to return to the City Centre, as well as directly to the University.

#### **Useful transport links:**

- **Leeds Transport (all transport options):** <http://www.wymetro.com/>
- **First Buses:** <http://www.firstgroup.com/ukbus/yorkhumber/leeds/home/>
- **Bus Timetables:**  
<http://www.wymetro.com/BusTravel/BusTimetables/001.htm>
- **Weetwood Hall:** <http://www.weetwood.co.uk/page.php/id=604>
- **Leeds/Bradford Airport:** <http://www.leedsbradfordairport.co.uk/>

Taxi numbers include:

**Amber Cars:** 0113 231 1366:

**Streamline:** 0113 244 3322

**Telecabs:** 0113 260 404

Further details about the University and travel can be found on the University web site at [www.leeds.ac.uk/visitors/getting\\_here.htm](http://www.leeds.ac.uk/visitors/getting_here.htm)

#### **Halls of residence Information**

You may check into your hall of residence from 14.00pm on the day of arrival, any guests arriving earlier can leave their luggage until the room becomes available. Please check in by 17.30pm on the day of arrival; please let us know if you will arrive later than this time. Please check out of your room and return your key to the hall office at 10am on the day of departure. A charge of £10 is payable for any keys not returned.

If you arrive after 10pm, you will need to ring the duty manager on their mobile to gain admittance (numbers below).

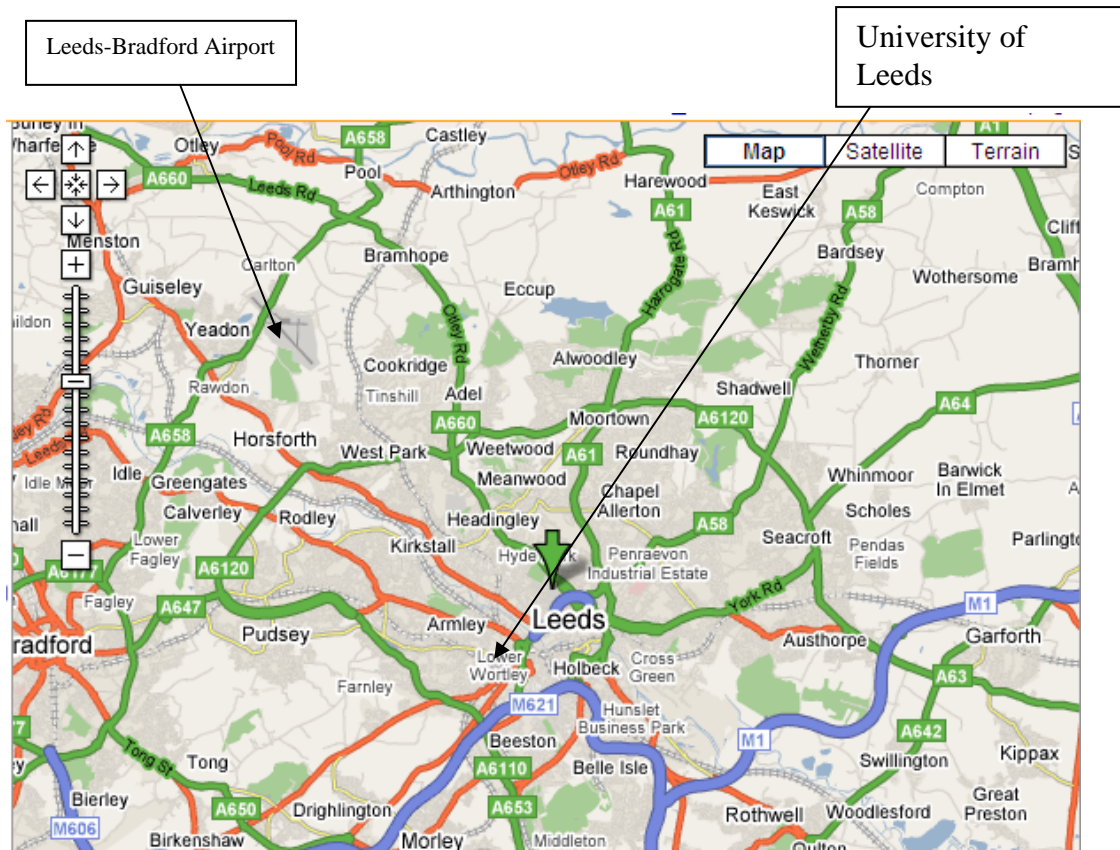
Breakfast will be available from 8am to 9am at the Refectory (No 7 on the map); **you will be provided with a voucher for breakfast.**

#### **Telephone Numbers**

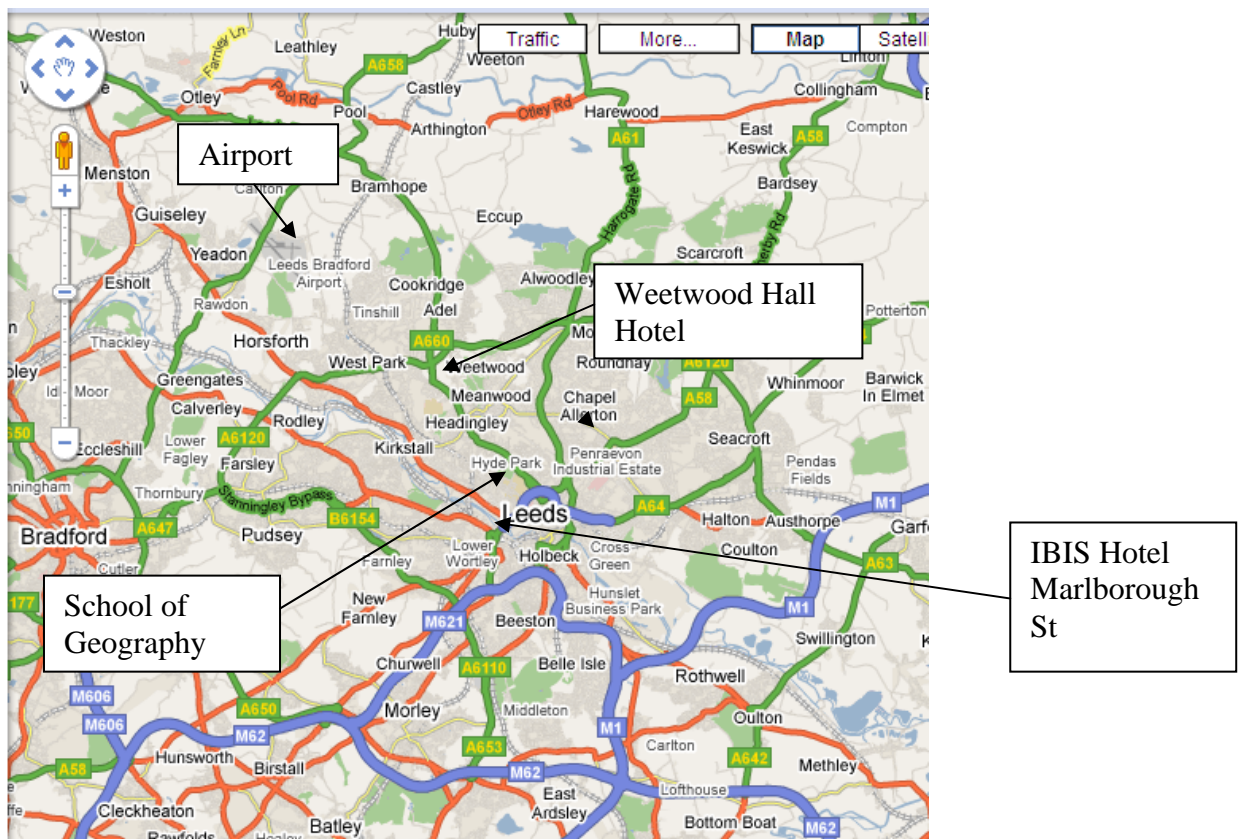
**Ellerslie Hall Tel:** 0113 343 5703

**Ellerslie Hall Tel:** 0790 360 9917

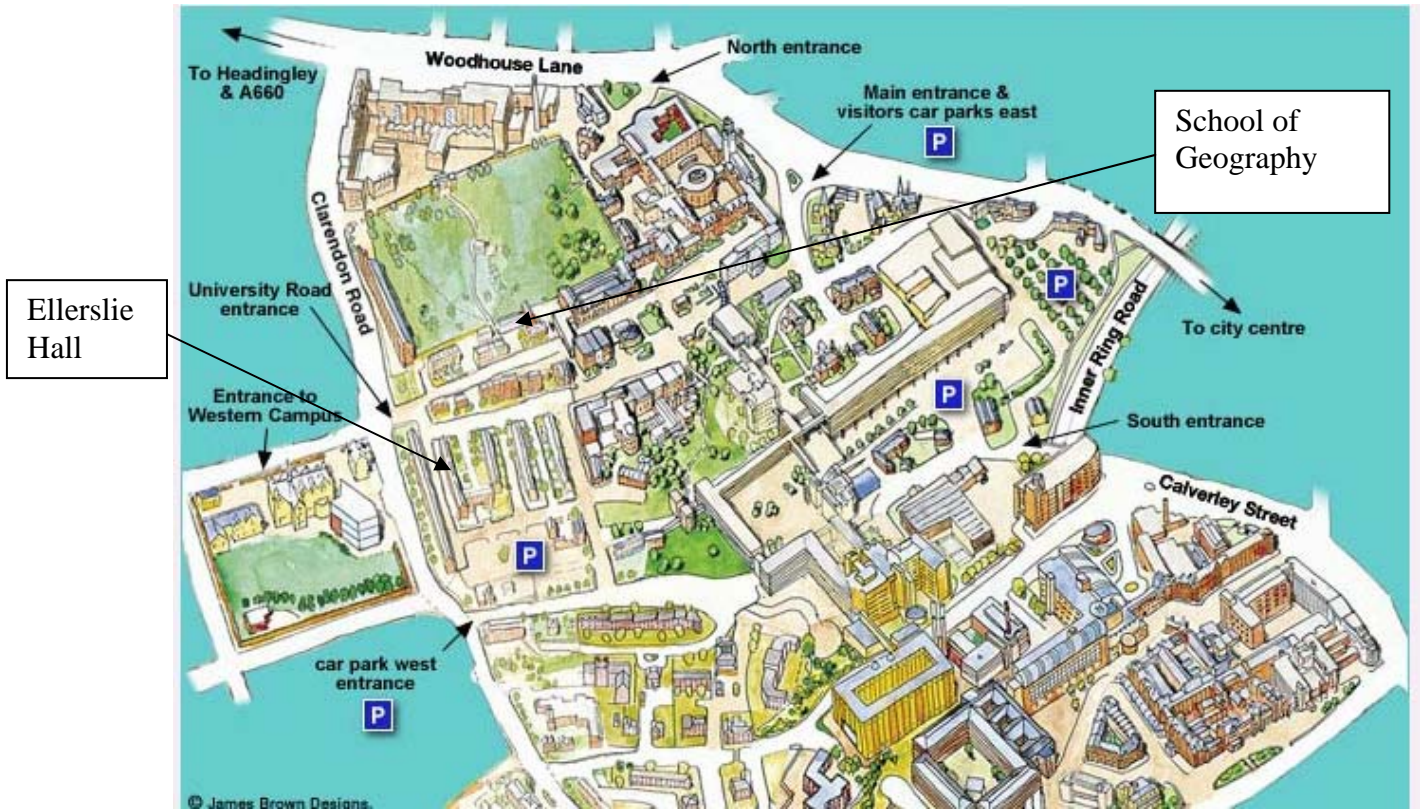
In the event of any serious problems or for emergencies, please contact the University of Leeds Security Service, Tel 0013 34 32222 (internal extension 32222).



Map 1: Leeds-Bradford Airport and the University of Leeds



Map 2: Hotel location relative to the School of Geography

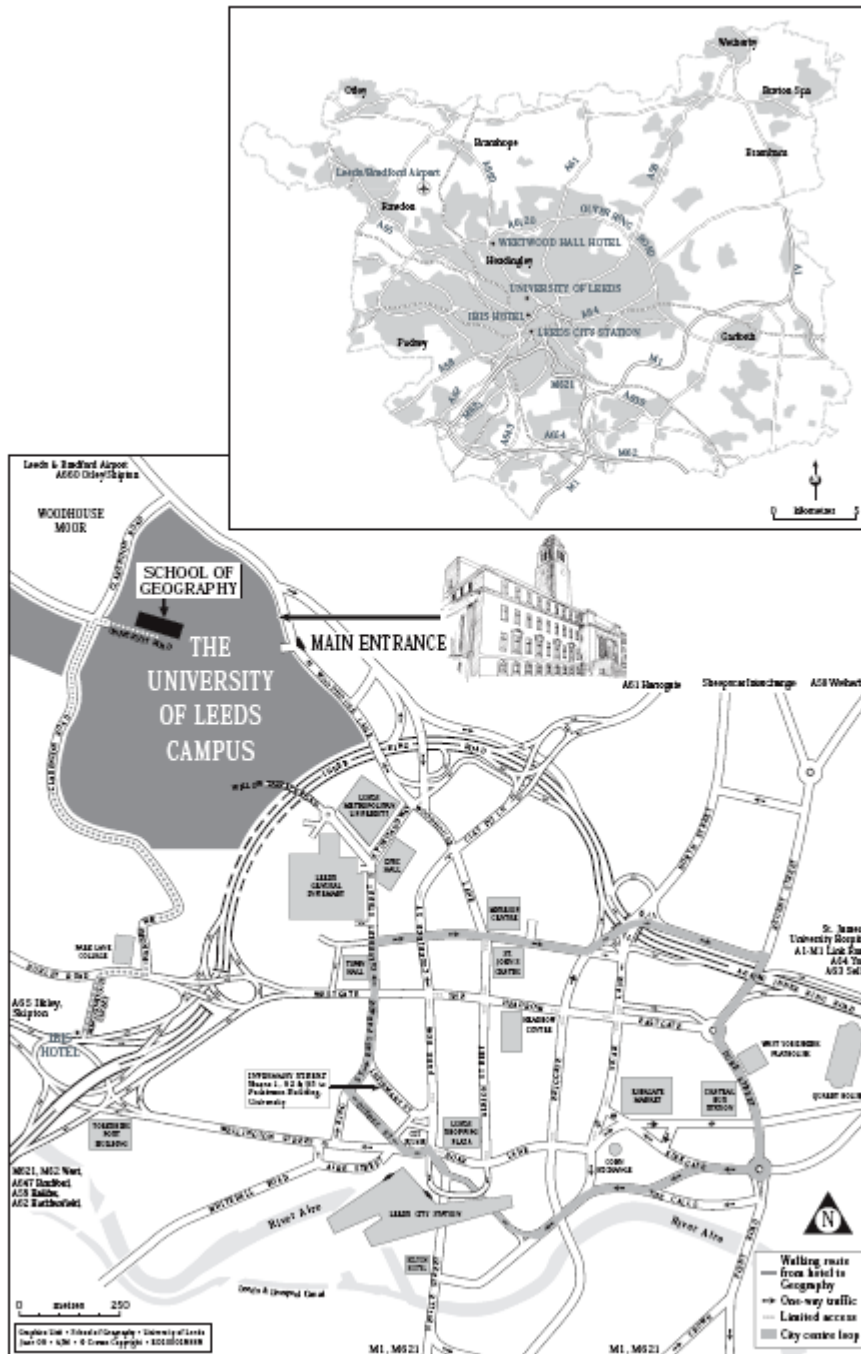


Map 3: University of Leeds Campus (perspective view)



Map 4: Air photo of School of Geography showing Summer School Locations (PPPP Offices = Offices of Phil Rees, Paul Norman, Peter Boden and Pia Wohland)





Map 6: Leeds orientation map for QMSS2 Summer School