

SHORTCOURSE IN SPATIAL ANALYSIS
IN ENVIRONMENTAL AND SOCIAL EPIDEMIOLOGY
5–8 September, 2005

Four 90-minute sessions daily (except late start on Monday for registration & welcome)

- A. 9–10.30
morning tea
- B. 11–12.30
lunch
- C. 1.30–3
afternoon tea
- D. 3.30–5

Invited lecture sessions may be one 90-minute talk, two 45-minute talks, three 30-minute talks, 60+30 or whatever. To be decided.

CONTRIBUTORS:

David Briggs
John Glover
Graeme Hugo
Mike Hutchinson
Geoff Morgan
Clive Sabel

MONDAY – overview of GIS; Point data

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|---|-----------------|--|
| A | David & Linda | Introduction - what are GIS and what do they offer |
| B | David & Linda | Modelling from point data: the example of air pollution |
| C | Graeme Hugo | - (topics to be finalised)
- (topics to be finalised) |
| D | Mike Hutchinson | Spatial Modelling and GIS |

TUESDAY – Basic models; exposure assessment; mapping

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| A | David & Linda | Modelling people and populations |
| B | David & Linda | Exposure assessment using GIS |
| C | John Glover | - Area/boundary problems with administrative data: variations in area/density, changing boundaries, lack of appropriate denominator data
- Approaches to small populations, events, at an area level
- Presenting data for people involved in policy and planning activities |
| D | David & Linda
Evening | The art of mapping: visualisation with GIS
Course Dinner – Venue TBC |

WEDNESDAY – Statistical and mathematical models

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| A | David & Linda | Modelling with covariates: traffic-related air pollution |
| B | Clive Sabel
Geoff Morgan
Clive Sabel | Clustering of Disease: issues and pitfalls
Childhood leukaemia and benzene
Kernel Density Estimation. |
| C | David & Linda | Deterministic modelling |
| D | David & Linda | Integrated methods for health risk mapping: the Rapid Inquiry Facility |

THURSDAY – more complex models

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| A | Geoff Morgan
Clive Sabel | IHD and SES by postal area
Spatial and Temporal clustering of Amyotrophic Lateral Sclerosis in Finland |
| B | David & Linda | Advanced modelling with GIS |
| C | David & Linda | Using GIS: possibilities and problems (Discussion) |
| D | TBA (or continued discussion as people drift away) | |