



C12.01: IGU Applied Geography Commission

Report on Commission Activities, 2013

1. Membership and Participants

1.1 Applied Geography Commission Members

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1.3 List of 'Friends' of the Commission

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2. Meetings and Activities

2.1 Leeds, May 2013

The IGU applied geography group held two meetings in 2013. The first was a major international workshop on applied GIS and spatial modelling. It was held in collaboration with three other IGU commissions: Dynamics of Economic Spaces, GIScience and Modelling Geographical Systems. The workshop attracted 90 delegates from around the World. The \$1000 bursary from the IGU was used to support travel and subsistence for postgraduate students. All together we had 25 postgraduate students which was a great sign that quantitative geography has some future researchers! The meeting was held at the Hilton Hotel in Leeds. Social events included a brewery trip, a trip to the Yorkshire Dales and a conference dinner at a local Leeds restaurant. The workshop provided a wealth of excellent papers. Graham Clarke and Eli Stern are now commissioning papers for a book based on the conference papers. This will be published in 2014 and will be reported more fully in next year's annual report.

The conference schedule is detailed below

WEDNESDAY 29th MAY 2013

11.00 Onwards: Registration

12.30 Lunch

13.45 Conference Welcome

Prof Graham Clarke (University of Leeds)

14.00 Keynote presentation 1:

Chair: Graham Clarke

APPLIED URBAN AND REGIONAL MODELLING: A SWOT ANALYSIS

Sir Alan Wilson, Centre for Advanced Spatial Analysis
University College London
Neville Room

15.00 Parallel session A: Commuting and Labour Markets

Chair: John Stillwell

Room: Neville Room

Spatial analysis of commuting to work patterns in the UK
Thomas Murphy, John Stillwell and Lisa Buckner (University of Leeds)

A spatial microsimulation approach to modelling scenarios of change in commuter systems
Robin Lovelace and Dimitris Ballas (University of Sheffield)

Applying a universal model of labour markets to the diverse geography of Europe
Mike Coombes, José Manuel Casado-Díaz, Lucas Martínez-Bernabeu and Colin Wymer
(Newcastle University, University of Alicante, Trier University, Newcastle University)

15.00 Parallel session B: Housing and Settlement Patterns

Chair: Eli Stern

Room: Magnum Room

Cultural diversity in gentrifying neighbourhoods
Stefano Picascia, Bruce Edmonds, Alison Heppenstall (Manchester Metropolitan University,
University of Leeds)

To what extent are Australian private housing renters 'mis-located'? A case study of Brisbane,
Australia
Yan Liu, David Wadley, Amity James (University of Queensland)

Spatial Search: New Settlements for Israel's Ultra-Orthodox Population
Eli Stern (University of the Negev)

16.30 Tea/coffee

17.00 Parallel session A: Economic Geography

Chair: Bob Stimson

Room: Neville Room

Visualizing Local Economic Development: A Comparative Space-Time Data Tool
Michael C. Carroll, Will M. Burns (Bowling Green State University)

An Exploratory Analysis of New Firm Formation in New England
Jitendra Parajuli, Kingsley E. Haynes (George Mason University)

Using Spatial Modelling to Investigate the Impact of Policy Change: Human Capital in Australia - Implications of the 485 Graduate Visa Scheme in Australia
Jonathan Corcoran, Francisco Rowe, Alessandra Faggain, Robert Stimson (University of Queensland, Ohio State University, University of Melbourne)

17.00 Parallel session B: Microsimulation modelling

Room: Magnum Room

Chair: Eveline van Leeuwen

Modelling the transportation of primary aggregates in England and Wales: exploring the benefits of rail v road initiatives using a spatial microsimulation model
Chengchao Zuo, Mark Birkin, Graham Clarke, F.McEvoy, A.Bloodworth (University of Leeds)

Studying micro and macro welfare and income effects of regional economic developments in the energy sector in the Western islands of Scotland
Eveline van Leeuwen, Graham Clarke, Allan Grant, Peter MacGregor, Dimitris.Ballas, Kim Swales (University of Amsterdam, University of Leeds, University of Strathclyde, University of Sheffield, University of Strathclyde)

18.30 Close

19.00 Dinner at Hilton Hotel

20.00 Quiz night in hotel bar

Thursday 30th May

09.30 Parallel session A: Health care modelling

Chair: Karyn Morrissey

Room: Neville Room

Estimating Disease Prevalence Using Spatial Microsimulation and Longitudinal Data Analysis
Stephen Clark, Alison Heppenstall, Mark Birkin (University of Leeds)

Geographic and social mobility: understanding the contribution of selective sorting between social groups and area-types to changing health gradients
Fran Darlington (ESRC White Rose DTC Network Student), Dr Paul Norman (University of Leeds), Dr Dimitris Ballas (University of Sheffield)

Using a spatial simulation approach to map the Austrian smoking situation and to explore spatial inequalities for small areas
Melanie Tomintz, Bernhard Kosar (University of Applied Sciences, Austria)

09.30 Parallel session B: Spatial Modelling and Spatial Statistics

Chair: John Lombard

Room: Magnum Room

Sample Size Optimization Through a Multimodel Approach

Ward Bryssinckx (Avia GIS)

Modelling the Determinants of Voter Support for Political Parties at the 2010 Federal Election

Robert J. Stimson, Rod McCrea, Tung-Kai Shyy (The University of Melbourne, CSIRO, The University of Queensland)

Optimal Spatial Weighting Functions of Geographically Weighted Regression Models used in Mass Appraisal of Residential Real Estate

Paul Bidanset, John R. Lombard (Office of the Real Estate Assessor
City of Norfolk, Old Dominion University)

11.00 tea/coffee

11.30 Parallel session A: Health care modelling

Chair: Melanie Tomnitz

Room: Neville Room

Investigating Suicide by Area in England and Wales

Pauline Turnbull (University of Manchester)

Population Ageing and Healthy Life Expectancy in Thailand

Phil Rees, Rukchanok Karcharnubarn, Myles Gould (University of Leeds, Chulalongkorn University, Bangkok, University of Leeds))

Examining the Socio-spatial determinants of Depression in the UK

Karyn Morrissey (University of Liverpool)

11.30 Parallel session B: Spatial modelling

Chair: Robert Baker

Room: Magnum Room

Adding reality to Hotelling's main street: an agent-based approach

Eveline van Leeuwen and Mark G. Lijesen (Free University, Amsterdam)

Can Cities Bounce-Back? Dynamic Agent Based Simulation of Urban Resilience

Daniel Felsenstein, Yair Grinberger (Hebrew University of Jerusalem)

Recent Advances in Dynamic Spatial Interaction Modelling with Reference to the Study of Global Internet Traffic,
Robert Baker (University of New England)

13.00 Lunch

14.00 Parallel session A: Health care modelling

Chair: Michelle Morris

Room: Neville Room

Children at independent schools are more active than those at state schools: a pilot study in Sheffield, United Kingdom
Kim Edwards (University of Nottingham)

Childhood obesity and the obesogenic environments of the school and their neighbourhoods
Michelle Almond, Kimberly Edwards, Graham Clarke, Janet Cade (University of Leeds)

Spatial analysis of overweight and obese in the UK Women's Cohort Study (UKWCS)
Michelle Morris, Graham Clarke, Kimberley Edwards, Claire Hulme, Janet Cade (University of Leeds, and University of Nottingham)

15.30 Tea/coffee

14.00 Parallel session B: Population Dynamics (1)

Chair: Paul Norman

Room: Magnum Room

Uncertainty in population projections - with special reference to the UK
Nico Keilman (University of Oslo)

Bayesian cohort component population forecasts for the UK
Arek Wisniowski (University of Southampton)

How confident can we be in the projections of the older population of the United Kingdom?
Philip Rees (University of Leeds)

15.30 Tea/coffee

16.00 Parallel session A: Geodemographics

Chair: Mark Birkin

Room: Neville Room

Clusters, Cars and Consumers - can Spatial Influence be Detected in the Purchase of Priuses?
Alison Pridmore (University of Aberdeen)

Re-thinking households - Using administrative data to count and classify households with some geographical applications
Gill Harper (CASS Business School)

Geodemographics: Creating a Classification at the level of the Individual
Luke Burns, Mark Birkin, Alison Heppenstall, Linda See (University of Leeds, International Institute for Applied Spatial Analysis)

16.00 Parallel session B: Population Dynamics (2)

Chair: Phil Rees

Room: Magnum Room

Estimates of ethnic group fertility rates for use in subnational projections for England
Paul Norman (University of Leeds) and Philip Rees (University of Leeds)

On the decomposition of life expectancy and the limits to life
Les Mayhew (City University)

European Regional Populations: Current Trends, Future Pathways, and Policy Options
Philip Rees (University of Leeds)

Panel Discussion on Improving Demographic Projections
Nico Keilman, Les Mayhew, Paul Norman, Arek Wisniowski, Phil Rees

17.30 Keynote presentation 2:

Chair: Graham Clarke

Localised Spatial Interaction Models
Stewart Fotheringham, University of St.Andrews
Neville Room

18.30 Close

Free night to enjoy Leeds

Friday 31st May

09.30 Parallel session A: Environment Modelling And Remote Sensing

Chair: Gordon Mitchell

Room: Neville Room

Households' willingness to pay for attractive green areas
Michiel N. Daams, Frans J. Sijtsma (University of Groningen)

Past, present and future: landscape conservation and urban development planning in the mining district of Bacu Abis (Carbonia) in Sardinia
Debora Porra (University of Cagliari)

Periodicities in mean sea level fluctuations? Application of Lotka-Volterra periodic model to Climate Change and Coastal Management
Robert G. V. Baker and Sarah A. McGowan (University of New England)

An urban land use model to test the efficacy of high resolution satellite imagery in preparing land use map – a case study of Port Blair, Andaman and Nicobar Islands, India
K. Pratheep Moses, Monsingh D. Devadas (Anna University, India)

11.30 Tea/coffee

09.30 Parallel session B: Retail Systems and Geodemographics

Chair: Martin Clarke

Room: Magnum Room

Mapping food poverty: identifying areas of greatest need during a time of austerity in England
Dianna Smith, Storm Parker, Alison Heppenstall (Barts and The London School of Medicine and Dentistry, University of Leeds)

Exploring the spatial dynamics of the UK convenience market
Nick Hood, Martin Clarke, Graham Clarke (University of Leeds)

Progress in modelling small-area tourist demand
Andy Newing, Graham Clarke, Martin Clarke (University of Leeds)

Application of Spatial Interaction Models for Retail Location Analysis in Developing Countries.
Pakorn Meksangsouy, Graham Clarke, Paul Waley (Srinakharinwirot University, Thailand and, University of Leeds)

11.30 tea/coffee

11:45-12.15

IGU Applied Geography Business Meeting (all welcome)

Room: Neville Room

12.15 Lunch

13.00 Tour of Dales and Brewery (including dinner), coach returning at 21:00

Saturday 1st June

09.30 Parallel session A: ABM modelling

Chair: Alison Heppenstall

Room: Neville Room

Adaption to changes in geo-systems: an agent based simulation
Ifigenia Psarra (Eindhoven University of Technology)

Innovation of density measures for sustainable urban growth
Meta Berghauser Pont, Lars Marcus (Sweden and Delft University of Technology)

Optimising an Agent-Based Model to Explore the Behaviour of Simulated Burglars
Nick Malleson, Alison Heppenstall (University of Leeds)

09.30 Parallel session B: Transport Modelling

Chair: Les Mayhew

Room: Magnum Room

Schoolchildren's road to school: perceived danger compared to actual accidents
Edgar Sepp, Jüri Roosaare (University of Tartu, Estonia)

A spatial microsimulation model of people's daily travel behaviour and transport CO₂ emissions
in Beijing, China
Jing Ma, Alison Heppenstall, Gordon Mitchell (University of Leeds)

On the impact of fast route geometry on urban form with some strategic applications
Les Mayhew (CASS Business School)

11.00 Tea /coffee

11.30 Parallel session A: ABM modelling

Chair: Andy Evans

Room: Neville Room

Exploring Human Behaviour using Agent-Based Modelling, Neural Networks and Land Use/Land Cover (LU/LC): A case study of Flooding in the Limpopo River Basin, Xai-Xai, Mozambique
Robert Fligg, Joana Barros (Natural Resources Canada, Birkbeck, University of London.
(Birkbeck)

Early modern human dispersals out of Africa: Testing models for mechanisms using agent based modelling
Penny Spikins, Alison Heppenstall, Andy Evans (University of York, University of Leeds)

11.30 Parallel session B: Ageing and Migration and community background

Chair: John Stillwell

Room: Magnum Room

The implications of ageing and migration for the future population, health, labour force and households of Northern England
Phil Rees and Chengchao Zuo (University of Leeds)

Ageing and migration: some reflexions on the effects of the economic and financial crisis on demographic trends in Portuguese regions
Maria-Lucinda Fonseca (University of Lisbon)

Exploring the feasibility of using agent-based and simulation models to study residential migration and associated segregation (with Northern Ireland as an example)
Myles Gould and Ian Shuttleworth (University of Leeds, University of Belfast)

13.00 Lunch

14:00 Parallel session A: ABM modelling II

Chair: Kirk Harland

Room: Neville Room

Small scale agent-based modelling of infectious disease transmission
Mike Bithell, Erica Bithell and James Brasington (University of Cambridge)

Patterns of Aspiration: Spatial agent-based simulation of school choice policy
James Millington (Kings College London)

ABM for Education Planning,
Kirk Harland, Alison Heppenstall (University of Leeds)

14.00 Parallel session B: Migration Analysis and Modelling 1

Chair: Stamatis Kalogirou

Room: Magnum Room

Visualising and interpreting sub-national migration patterns in the United Kingdom over the past decade

Nik Lomax, Paul Norman, Phil Rees and John Stillwell (University of Leeds)

Destination Choices of Skilled Internal Migrants in China: Jobs, Amenities and Ownership Structure of Economy

Ye Liu and Jianfa Shen (The Chinese University of Hong Kong)

Putting Greece on the map of internal migration modelling: the spatially varying effect of determinants of destination choice of those leaving Athens

Stamatis Kalogirou (Harokopio University)

15.30 Tea/coffee

16.00 Parallel session A: Time/Space Modelling

Chair: Nick Malleson

Room: Neville Room

Exploring the impact and effectiveness of the 'Project Optimal' Burglary Reduction Initiative in Leeds: A Spatio-Temporal Approach

Nicholas Addis (University of Leeds)

Individual Level Daily Time Step Demographic Simulation Modelling

Andy Turner, Thomas Doherty (University of Leeds, University of Glasgow)

Spatio-Temporal Text Mining

Nick Malleson, Mark Birkin (University of Leeds)

16.00 Parallel session B: Migration Analysis and Modelling 2

Chair: John Stillwell

Room: Magnum Room

Modelling individual migration behaviour using a commercial data set: (An investigation of the need for weighting and) An analysis of mover/stayer characteristics across the life course

Michael Thomas, Myles Gould and John Stillwell (University of Leeds)

Internal migration and the frictional effect of distance

John Stillwell and Konstantinos Daras (University of Leeds)

Modelling migration flows for EU regional policy
Adam Dennett (CASA, University College London)

17.45 Keynote presentation 3:

Chair: Graham Clarke

'Agent-based Models of Geographical Systems'

Mark Birkin, University of Leeds

Neville Room

18.45 Close

20.00 Drinks and conference dinner (Fazenda restaurant, 21:00)

- End ---

2.2 IGU Regional Conference, Kyoto August

The Applied Geography Commission held a joint session at the IGU regional conference in Kyoto with the Commission on Health and the Environment. The theme title was 'Modelling small area data for epidemiological studies'. The papers given were:

Tomoki Nakaya Ritsumeikan University Modelling Geographic Disparities in Cancer Survival in Osaka Prefecture, Japan

Yuri Ito Osaka Medical Center for Cancer and Cardiovascular Diseases 'Investigating spatial clusters of cancer incidence in Osaka Prefecture, Japan: An application of GIS for Cancer Control'

Ta-Chien Chan Academia Sinica 'Balancing the privacy concern and tolerance of precision in epidemiologic study by geographical masking methods'

Kazumasa Hanaoka Tohoku University 'Small area estimation of health behavioural indices in Osaka city, Japan'

Satoshi Nagao Japan Planning Systems co., ltd. ‘Development of Built-up areas and Walking Habits of elderly people in Kameoka City, Japan’

Michelle Almond University of Leeds ‘Spatial variations in Childhood Obesity: the school and neighbourhood geographies’

Shigeru Inoue Tokyo Medical University ‘Associations between objectively-measured environmental attributes and physical activity among Japanese adults’

Michelle A Morris University of Leeds ‘Spatial analysis of overweight and obese in the UK Women’s Cohort Study (UKWCS)’

Ikuho Yamada Chuo University ‘A space-time analysis of the risk of low birthweight and neighborhood contextual factors’

Shinya Yasumoto University of Tokyo ‘Longitudinal trends in equity of park accessibility in Japan: An investigation of the role of causal mechanisms’

Monika Vij Delhi University Industrial Development, ‘Human Health and Urban Environment in Delhi Mega City’

Chien Tat Low The University of Hong Kong ‘Understanding the geography of Traditional Chinese Medicine (TCM) body constitution in population health’

3. Networking

In addition to the two ‘official’ meetings, there continues to be informal networking among members of the Commission through electronic means. Where possible Commission Members and Friends have met informally at various professional association conferences to discuss Commission activities. We have been keen to organize joint events with other IGU Commissions. The meeting in Leeds for example was held in collaboration with three other IGU commissions: Dynamics of Economic Spaces, GIScience and Modelling Geographical Systems. The meeting was also attended by an informal group of scholars under the banner of the agent-based modelling group. Similarly, a joint session at the IGU regional conference in Kyoto was held with the Commission on Health and the Environment. In 2014 we wish to build more formal links with the Regional Science Association International which also encourages applied research in economic and geographical modelling and planning. Thus, we shall organise a set of themes and papers around applied location modelling for the North American RSAI meeting in Washington in November.

4. Publications

A new book was launched at the session organized by the Commission at the IGU Congress in Cologne, Germany, in August 2012 but only came available at the end of 2012/early 2013.

Title *Studies in Applied Geography and Spatial Analysis: Addressing Real World Issues*

Editors:

Robert J. Stimson, Kingsley E. Haynes

Contents:

Preface

The contributors

Chapters:

1. Applied geography: Relevance and approaches
Robert J. Stimson, Kingsley E. Haynes
2. A geographic perspective on demographic evolution in Europe: The C.E.G. participation in the ESPON 1.1.4 project
Diogo de Abreu
3. A national transport policy: The case of Pakistan
Roger Stough
4. Spatial modelling, GIS and network analysis for improving sustainability of transporting aggregates in the UK
Chengchao Zou, Mark Birkin, Graham Clarke, Fiona McEcoy, Andrew Bloodworth
5. SMILE - An applied spatial micro-simulation model for Ireland
Karyn Morrissey, Cathal O'Donoghue, Graham Clarke, Dimitris Ballas, Stephen Hynes
6. Using GIS and spatial modelling to support school network planning in Estonia
Edgar Sepp, Jüri Roosaare
7. Spatial optimisation: Expanding emergency services to address regional growth and development
Alan T. Murray, Daoqin Tong, Tony H. Grubestic
8. Urban growth in the Brisbane-South East Queensland region and its implications for emergency services provision: A Geographical Information Systems-based approach
Jonathan Corcoran, Robert J. Stimson, Prem Chhetri, David Rohde, Angela Higginson
9. Geographical dimensions of federal investment in small business development
Kingsley E. Haynes, Haifeng Qain, Sidney C. Turner
10. Geographic modelling, public policy, and informing the 'store wars' sovereignty debate in Australia
Robert G. V. Baker, Stephen N. Wood
11. Defending territory: Automobile dealership customer and site analysis
John Lombard
12. West Midlands (UK) regional planning (1999-2012), functioning economic geography and the E³I belt: Coping with uncomfortable truths
Michael Taylor, John R. Bryson
13. Technopoles: Governance and networking
Haddad Ismail
14. Economics of space: Estimating the economic significance of a NASA testing facility
Michael C. Carroll, Will M. Burns

15. Using input-output and GIS to assess the economic, fiscal and development impacts of toll roads in the Dallas: A 40 year perspective
Bernard L. Weinstein, Terry L. Clower
16. Helping community groups to address urban planning issues in a gipsy deprived neighbourhood: Geographical experiences from Perpignan in a post-riot context
David Giband
17. Designing, implementing, monitoring and evaluating an urban community development program in Portugal
Maria Lucinda Fonseca, Alina Esteves
18. A Local master plan for biospheric conservation and development: Concept, methodology, and application
Eliahu Stern
19. Assessing responses responses to National Weather Service warnings: The case of a Tornado
Burrell E. Montz
20. Managing environmental hazards of outdoor falls among the elderly population of Hong Kong
Poh-chin Lai, Wong Wing-Cheung, Chan Ming-Houng, Low Chien-Tat, Wong Kin Chung Martin
21. Hydropower in the Chilean Patagonia: Evaluating socio-economic conditions for resettlement and/or compensation of rural inhabitants
Frederico Arenas, Pablo Osses McIntyre

A new book will be commissioned from the IGU meeting in Leeds. This should be available in 2014. In addition to the book, a collection of papers on applied population analysis (building on the IGU session at Leeds) will be published by Prof John Stillwell in a special edition of the journal '**Applied Spatial Analysis and Policy**'. The contents include:

The IMAGE studio: A tool for internal migration analysis and modelling
John Stillwell, Konstantinos Daras, Martin Bell and Nik Lomax

Internal migration in United Kingdom: Analysis of an estimated inter-district time series, 2001-2011s
Nik Lomax, John Stillwell, Paul Norman and Phil Rees

Interprovincial migration, regional development and state policy in China, 1985-2010
Ye Liu, John Stillwell, Jianfa Shen and Konstantinos Daras

Exploring and validating a commercial lifestyle survey for its use in the analysis of population migration
Michael Thomas, John Stillwell and Myles Gould

Quantifying the effects of economic and labour market inequalities on inter-regional migration in Europe – a policy perspective
Adam Dennett

5. Archival Contributions

The Commission has not deposited any materials with the IGU archives as such although we hope in 2013 to make sure all our activities are better archived.

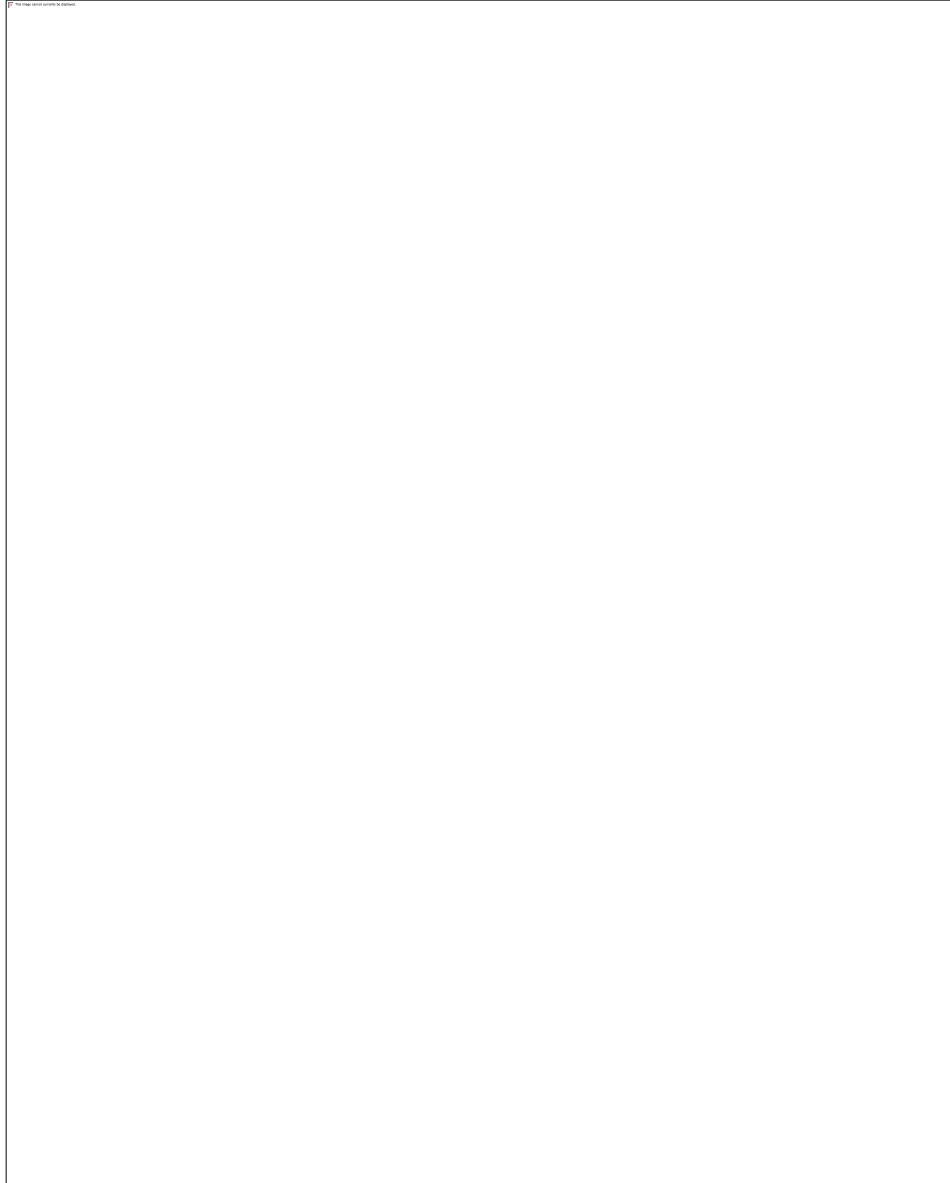
6. Continuation

The Commission requests that the IGU Executive Committee recommends that the Commission be continued under its present name, the Applied Geography Commission.

7 Proposed activities

It is proposed that the Applied Geography Commission will continue to organize unique events around applied geography and planning as well as participate where possible at the annual IGU regional conferences. We also wish to continue the past tradition of producing excellent publications. In particular, we have the following events scheduled for 2014:

1. Producing a 4th edited book on *Applied GIS and Spatial modelling* to be launched at the 2014-2015 IGU Congress. This will be based on the papers from our meeting in Leeds in May 2013.
2. Hold a workshop in Tel Aviv in May 2014 – please see flyer below. This is being convened by AGU secretary, Eli Stern.



3. Organise a special sessions for Commission activities as part of the North American Regional Science Association meeting in Washington, November 2014. John Lombard and Graham Clarke are the co-convenors.
4. Organise Applied Geography sessions as part of IGU Regional Conferences in Krakow and Beijing.
5. Organise new workshops in May 2015 (Bangkok), 2016 (Europe – venue to be confirmed) along the lines of the Tel Aviv meeting in May 2014.

END