

**11th International Medical Geography Symposium
Fort Worth, TX July 5-9, 2005**

Wednesday, July 6

9:00 -10:40 Plenary Session Keynote Address – Dr. Ron Blanck, President, UNTHSC
TIMES SQUARE BALLROOM

Morning Parallel Sessions (20 minutes per presenter)

**10:50 -12:30 ALAMO ROOM
FOOD DESERTS AND HEALTH SYSTEMS
CHAIR: KATHI WILSON**

Karen Smoyer Tomic, *University of Alberta*

Are there food deserts in Edmonton, Alberta, Canada? A study of supermarket accessibility

Dr. Ronan Foley

Hospital reorganization and the implications for geographical accessibility in Ireland

Lisel O'Dwyer

Are there food deserts in Australia?

Amy Griffin, *University of New South Wales-ADFA*

A socio-ecological classification for stratifying cities for health-environment research

Sarah Atkinson

The academic imagination and policy practice: approaches to study decentralisation in health systems

**10:50-12:30 CHAPARRAL ROOM
HOME CARE, HEALTH SPACES AND ACCESS
CHAIR: SUE C. GRADY**

Nicole Yantzi, *Queen's University*

Home as a place of caring: struggling to fit children's growing bodies and changing care trajectories

Paul Boyle, *University of St Andrews* and Paul Norman, *University of Manchester*

Changing places and changing peoples, a longitudinal analysis of deprivation, migration and death

Ross Barnett, *University of Canterbury*

Barriers to health equality?: Unequal utilisation of diabetes educational provision in New Zealand

Valorie Crooks

"Because everything changes that day; you don't do the routine": Spatio-temporal processes of preparing for and getting to the Doctor's office in the lives of women living with chronic illness

Charis Keller-Lengen, *University of Zürich*, Jörg Blasius, *University of Bonn*, ** and Thomas Kistemann, Institute for Hygiene and Public Health, University of Bonn.

Health Spaces of Switzerland

**10:50-12:30 PIONEER ROOM
EMERGING INFECTIOUS DISEASES
CHAIR: JONATHAN MAYER**

Marilyn O. Ruiz, *University of Illinois College of Veterinary Medicine*
Urban landscapes and West Nile Virus in the Upper Midwest, USA

Thomas Kistemann, University of Bonn.

Cloud bursts or persistent rain? Uncovering spatial legionella seroprevalence patterns in Germany

Donald J. Huebner, Texas State University-San Marcos
Vibrio vulnificus bacteria as an environmental hazard

E. J. Hanford, *Texas State University - San Marcos*
The need for bio-geographic research on Chagas disease in Texas

Curtis Denton and Joseph R. Oppong, *University of North Texas*
Predicting prevalence of *Mycobacterium ulcerans* (Buruli Ulcer) in the eastern region of Ghana

12:30 – 2:00 LUNCHEON (SPONSOR: UNIVERSITY OF NORTH TEXAS HEALTH SCIENCES CENTER).

Speakers:

Jonathan Mayer, University of Washington, *Medical Geography in the Genomic Era.*

Armin Mikler, University of North Texas, *Computational Epidemiology.*

Afternoon Parallel Sessions (20 minutes per presenter)

**2:00 -3:20 ALAMO ROOM
EMERGING ISSUES IN NEIGHBOURHOODS AND HEALTH
CHAIR: SUSAN ELLIOTT**

DISCUSSANT: TONY GATRELL, Director, Health Research Institute, Lancaster University

Session organizers: Kathi Wilson and Susan Elliott

K. Wilson, S. J. Elliott*, J. Eyles*, S. Keller-Olaman**

*Department of Geography, University of Toronto at Mississauga, Ontario, *School of Geography and Geology, McMaster University, **Department of Public Health Sciences, University of Toronto.*

The relational component of context: understanding the role of (perceived) neighbourhood characteristics in shaping health and well-being

Dana H. Wilson, Nancy A. Ross, Jason A. Gilliland*

*Department of Geography, McGill University, *Department of Geography, University of Western Ontario*

Neighbourhood Contexts and Opportunities for Youth Gambling in Montréal, Québec

Robin Haynes, School of Environmental Sciences, University of East Anglia

Identifying neighbourhoods in studies of injuries to children

2:00- 3:20 CHAPARRAL ROOM

GEOGRAPHIES OF HEALTH RISK, PROTECTION AND RESILIENCE

CHAIR: HELENA TUNSTALL

Session Coordinators: Helena Tunstall, James Fagg, Julia Gibbs

Emmanuel Eliot, *CNRS/Universite Du Havre*

Circulation of risk : case study on the HIV /AIDS epidemic in India

James Fagg, *Queen Mary, University Of London*

Investigating resilience to geographical adversity in young people

Julia Gibbs, University of Edinburgh

Case study investigation into resilient populations achieving positive health outcomes under conditions of prolonged economic adversity

Helena Tunstall

University of Edinburgh

Searching for resilience: Economically declining areas of Britain with lower than expected mortality rates

3:30 – 5:30 ALAMO ROOM

SOCIAL AND ENVIRONMENTAL CORRELATES IN SPATIAL PATTERNS

CHAIR: SARAH ATKINSON

Overcoming the Individualistic Fallacy

Session coordinators: Michael Emch and Mohammad Ali

Mohammad Ali, *International Vaccine Institute*

Spatial pattern of typhoid vi vaccine uptake in a mass campaign in Hue, Vietnam

Michael Emch, *Columbia University*

Ecological Correlates of Spatial Heterogeneous Vaccine Efficacy

Eric Daude, *University of Rouen, France*

Integrating mobility to model the spatial diffusion of epidemics : a theoretical approach.

Sue C. Grady, *CUNY Graduate Center*

Racial Disparities in Low Birthweight and the Contribution of Residential Segregation: A Multilevel Approach

Sarah Curtis and Steve Cummins, *Queen Mary, University of London*

People, Places and Health: the Shifting Agenda

Robert Lipton, *Prevention Research Center, Berkeley, CA*

Underage tobacco sales in the city of LA, hotspots and politics

3:30 -5:30 CHAPARRAL ROOM

CFP: CRITICAL GEOGRAPHIES OF PUBLIC HEALTH

CHAIR/DISCUSSANT: GRAHAM MOON, University of Portsmouth

SESSION COORDINATORS: TIM BROWN AND ROBIN KEARNS

(15 minutes per presenter, 30 minutes discussion)

Clare Herrick, *UCLA*

Risky Bodies: Public health, social marketing and the governance of obesity

Damian Collins, *University of Otago* and Robin Kearns, *The University of Auckland*

Avoiding the glare? The imperative and practice of sun protection in Auckland, New Zealand

Tim Brown and Morag Bell, Department of Geography, Loughborough University

Thinking beyond boundaries: mobilizing the global in critical geographies of public health

Bethan Evans, University of Liverpool

‘Gluttony or Sloth’: critical geographies of bodies and morality in (anti)obesity policy

Sarah Wakefield, *University of Toronto*

Food forever and for all: exploring praxis in public health using a “Food Movement” case study

Fiona Smyth, University of Manchester

Places and spaces of disease: exploring social constructionist perspectives in medical geography

Thursday, July 7

Morning Parallel Sessions (20 minutes per presenter)

**9:00 – 10:40 ALAMO ROOM
MODELING HEALTH AND HEALTH CARE SYSTEMS
CHAIR: SARAH MCLAFFERTY**

Graham Moon, *University of Portsmouth.*

Fat Nation: deciphering the distinctive geographies of obesity in the UK

Ellen K. Cromley, *University of Connecticut*

Community trails and street network connectivity: built environment characteristics that support physical activity

Daniel A. Griffith, *University of Miami*

An evaluation of within areal unit variation estimated with a Bayesian random effects model: a case study of pediatric lead poisoning in Syracuse, NY

Vladimir Yasenovskiy, *University Of Alberta*

Location-allocation models for hierarchical health care facility systems

Samantha Cockings, *University of Southampton.*

Automated zone design for environment and health studies using individual-level data

**9:00 -10:40 CHAPARRAL ROOM
GIS AND DISEASE
CHAIR: JOHN MOHAN**

Linda Komlos, *University of Arkansas*

A GIS approach to diffusion of the West Nile virus in Arkansas

Robert Adamski and Harrison Brunton, *The National Cancer Institute*

Developing and maintaining a enterprise GIS for studying disease - an in depth look at the Long Island GIS

Bing Shi, *Texas A&M University*

Structuration, women's labor force participation and individual behavior: an integrated study on spatial-temporal patterns of breast cancer

Soumya Mazumdar, *University of Iowa*

A method for protecting the privacy of health data while testing for an association between environmental exposure and health

9:00 –12:00 PIONEER ROOM

THERAPEUTIC SPACES: DESIGNING FOR CONSUMPTION AND CARE
SESSION CHAIR: ROBIN KEARNS

Session Coordinators: Robin Kearns and Sarah Curtis

Sarah Curtis, *Queen Mary University of London*

Therapy by design: A qualitative assessment by staff and service users of the design of a new psychiatric hospital

Robin Kearns, *The University of Auckland*

Creating a place for population health: Interpreting the spaces and stories of a new school at the University of Auckland

Christine Milligan, *Lancaster University*

Emotional landscapes of care: place and identity in the care transition

Isabel Dyck, *Department of Geography, Queen Mary, University of London, Department of Sociology and Anthropology, Simon Fraser University*

(Re)constituting landscapes of home: health and healing practices in immigrant and refugee households in Canada

Allison Williams, *McMaster School of Geography & Geology*

Therapeutic Landscapes: The Past, Present & Future

Anne-Cécile Hoyez, *University of Rouen - France*

International therapeutic landscapes: production and reproduction of spaces and places in the world of yoga

10:50 -12:30 ALAMO ROOM

GENDER AND REPRODUCTIVE HEALTH ISSUES

CHAIR: RITAL FELLERS

Session coordinator: Vandana Wadhwa

Sara McLafferty, *University of Illinois*

Prenatal health policy in a neoliberal era: implications for reproductive health in poverty neighborhoods in Brooklyn, NY

Sarah Lovell, *Queen's University*

The medicalized body: A discussion of social and cultural barriers to cervical screening

Ranjana Chakrabarti, *University of Illinois-Urbana Champaign*

Place, culture and experiences of prenatal care: Bengali immigrant women in New York City

Vandana Wadhwa, *University of Akron*

Regional patterns of women's reproductive health in India: the importance of socio-economic contexts

Anne Fournand

Corporeity and spatiality : the case of pregnancy and childbirth

**10:50 -12:30 CHAPARRAL ROOM
ELDERLY CARE AND GEOGRAPHIC ACCESS
CHAIR: SUSAN MACEY**

Beatrice Chaudet, Sébastien Fleuret, Christian Pihet, *Université Angers*

« Specific day-to-day routes » : a tool for assessing accessibility of older people's daily environment.

Sébastien Fleuret, Christian Pihet, Edwin Rosenberg, Beatrice Chaudet

Regional coordination of care for the elderly as a production of spaces : the case of France

Alison L. Copeland, *Queen Mary, University Of London*

Examining efforts to reduce local rates of 'potentially avoidable' emergency admissions rates for the older population in a part of London.

Paul L. Robinson, *Charles R. Drew University*

Racial and ethnic disparities in preventable hospitalizations in California: how much is due to differences in geographic access to care?

Lucas-Gabrielli Véronique, Le Fur Philippe, *Research and information institute for health economics (IRDES), France*

The healthcare offering in peri-urban municipalities of France

12:30 – 2:00 LUNCHEON - PUBLIC HEALTH CHALLENGES AND RESEARCH NEEDS OF COUNTY HEALTH DEPARTMENTS. (SPONSOR: Medical Geography Specialty Group, Association of American Geographers)

Speakers: Dr. Lou Brewer, Director, Tarrant County Public Health.

Dr. John Carlo, Chief Epidemiologist, Dallas County Department of Health & Human Services

Afternoon Sessions (20 minutes per presenter)

**2:00 – 3:20 ALAMO ROOM
ENVIRONMENTAL POLLUTION AND HEALTH
CHAIR: ELLEN K. CROMLEY**

Talar Sahsuvaroglu, *McMaster University,*

Comparison of modeled ambient and personal levels of nitrogen dioxide in older adults living in Hamilton, Canada

Simon Kingham, *University of Canterbury*

Particulate pollution and health impact on schoolchildren in Christchurch, NZ, winter 2004

Guang Xiao, *University of Texas at Dallas*

The Effects of Air Pollution on the Rates of Asthma Admission to the Los Angeles Hospitals

Caroline Haddad, *McMaster University*

A longitudinal design that examines the long-term health effects of childhood exposure to air pollution: A case study from Hamilton, Ontario

**2:00 – 3:20 CHAPARRAL ROOM
PUBLIC HEALTH AND MIGRATION
CHAIR: LINDA KOMLOS**

Pau Mota-Moya

Public health facing international migration in Spain

Jody Lawrence, *School of Geography & Environmental Science, University of Auckland*

Health, wellbeing and diaspora: The TB experiences of a refugee community in Auckland, New Zealand

John Mohan, *University of Portsmouth*

Geography, mutualism and health care: British hospital contributory schemes before, during and after the NHS

Chantelle A.M. Richmond, *McGill University*

Social support and aboriginal health

2:00 – 3:20 POSTER SESSION PIONEER ROOM

Maurizio Gibin, *University of Eastern Piedmont, Italy*

A GIS approach to support and analyze the activities of a dental clinic in Novara

Korine Kolivras, *Virginia Tech*

Stigma Associated with the 2001-2002 Dengue Outbreak in Hawaii

Jessica L. McCann, *Robert Graham Center for Policy Studies in Family Practice and Primary Care*

Mapping the Healthcare Safety Net in Two Cities

Sonia Arbona, *Texas Department of State Health Services*

Mapping as a Planning Tool in the Epidemiology of STDs in Texas

C. Corley and L. Zhang, *University of North Texas*

Modeling Sexually Transmitted Diseases: Human Papilloma Virus and Human Immunodeficiency Virus.

S. Venkatachalam and A. Mikler, *University of North Texas*

Modeling Infectious Diseases using Global Stochastic Cellular Automata.

B. Parker, *University of North Texas*

High Performace Computational Epidemiology.

M. O'Neill II, R. Fleming, J. Mulder and A. Borman, *University of North Texas*

Modeling Tuberculosis: A Scalable Agent-Based Model.

K. Abbas, A. Mikler and R. Gatti, *University of North Texas*

Spatiotemporal Analysis of Infectious Diseases.

3:30 – 5:10 ALAMO ROOM

ANALYZING DEGENERATIVE DISEASES

CHAIR: SAMANTHA COCKINGS

Vicki Brock, *Kansas State University*

Sociodemographic variables and incidence of cancer death: A case study of Mobile County, Alabama

Graham Bentham, *University of East Anglia*

Explaining the geography of non-Hodgkin's lymphoma in the USA

Kirsten Beyer, *University Of Iowa*

Building surveillance capacity in Iowa through an environmental public health indicator system

Rita Fellers, *University of South Carolina*

A mixed-model analysis of plutonium body burden in residents of North America

Bimal Kanti Paul, *Kansas State University*

Beliefs, attitudes, and behaviors (BAB) towards arsenic victims in rural Bangladesh

3:30 – 5:10 CHAPARRAL ROOM

URBAN HEALTH

CHAIR: ALISON L. COPELAND

Susanne Herbst, *University of Bonn, Germany*

Closing the nutrient loop by hygienically safe waste water reuse in the Mekong-Delta, Vietnam

Karl K. Leiker, *Westfield State College*

Geographical, meteorological and urban factors in US heat mortality in the 20th century

Susan M. Macey, *Texas State University*

A respiratory risk-scape for children in Texas

Robert Lipton and Aniruddha Banerjee, Prevention Research Center

Chronic Obstructive Pulmonary Disease in California, 1993 and 1999: a novel method for using zip code level data.

Alexandra Wieland, University of Bonn

The association between regional precipitation-variability and the occurrence of gastrointestinal diseases in the administrative district of Cologne, Germany

Friday, July 8

ALL DAY FIELD TRIP

EVENING: BASEBALL GAME – TX RANGERS VS. TORONTO BLUE JAYS

Saturday, July 9

Parallel morning sessions (20 minutes per presenter)

9:00- 10:40 ALAMO ROOM

HEALTH GEOGRAPHY ANALYSIS

CHAIR: MARK W. SKINNER

Thomas Krafft*, Jerry Overton**, Tim Tenelsen***, Alexandra Ziemann*

*Ludwig-Maximilians-University Munich, ** Richmond Ambulance Authority,*

**** Rheinische Friedrich-Wilhelms-University Bonn*

Health Geography and Prehospital Emergency Care

Ishwari Sivagnanam, *University Of Iowa*

Standardizing mortality rates for resource allocation

Brent Sallie, *Morehead State University*

An open source software application for facilitating the calculation of multiple types of standardized rates for large geographical data sets

Sean Webster, *University of North Texas*

The prospects of the Orasure HIV test

Ezekiel Kalipeni, *University of Illinois*

HIV/AIDS in Sub-Saharan Africa: A spatial and statistical analysis

**9:00- 10:40 CHAPARRAL ROOM
DISEASE MAPPING AND SPATIAL ANALYSIS
CHAIR: RONALD E. COSSMAN**

Qiang Cai, *University of Iowa*

Explore effects of scale, population distribution on disease risk mapping

Stacey Martin, *Georgia State University*

A tale of two cartographies: Mapping disease using knowledge of place

Michael Tiefelsdorf, *The University of Texas at Dallas*

Controlling for migration effects in ecological disease mapping of prostate cancer

David Stinchcomb, *National Cancer Institute*

Web-based disease rate mapping - Usability test results

Chetan Tiwari, *University Of Iowa*

Intelligent agent-based spatial analysis system: a tool for solving privacy and confidentiality issues in disease surveillance

**10:50 – 12:30 ALAMO ROOM
VOLUNTEERISM, PUBLIC PARTICIPATION AND HEALTH
CHAIR: ANNELIESE POETZ**

Jamie Pearce, *University Of Canterbury*

Slip! slap! slop! Social variations in melanoma incidence and mortality in New Zealand

Allison Williams, *McMaster School of Geography & Geology*

Knowledge Translation Strategies in a Community-University Partnership Examining Local Quality of Life

From third sector to shadow state?: recent experiences of volunteer service provision in one community in the interior of British Columbia, Canada

Mark W. Rosenberg, *Queen's University*

Geographies of volunteerism: Filling the gap or being left behind?

Mentesnot Mengesha, *Queen Mary College*

Public participation as a tool for urban regeneration: The experience of the London Borough of Newham

**10:50 – 12:30 CHAPARRAL ROOM
MODELING HEALTH RISK
CHAIR: MATT COX**

Marilyn Aviles, *Queen Mary & Westfield College*

'Uncertainties, risk and emergencies': The use of a children's accident and emergency department in East London.

Stig Halvard Jorgensen, *Norwegian University of Science and Technology*

Geographical redistribution of health risk? Possible effects of a 'Vision Zero' road safety following up strategy.

Genevieve Moreau Clark, *McMaster University*

Emergent health issues: considering risk in relational terms

Sveinung Eiksund, *Norwegian University of Science and Technology*

Geographical differences in traffic risk for young adults and implications for road safety

Sarah Deedat, *Queen Mary College, University of London*

Rickets and osteomalacia moving beyond the cultural model of health

12:10 – 1:45 Lunch

Parallel Afternoon Sessions (20 minutes per presenter)

1:45 – 3:05 ALAMO ROOM

GEOSOCIAL PERSPECTIVES ON HEART DISEASE AND STROKE DISPARITIES

CHAIR: MARK ROSENBERG

Session coordinator: Katrina Van Valen Moore

Elizabeth Barnett, *University of South Florida*

Innovative local area measures of racial residential segregation for spatial epidemiology

Michele Casper, *Centers for Disease Control and Prevention*

Mapping black: White disparities in stroke death rates among counties in the Southeastern United States, 1999-2002.

Katrina Van Valen Moore, *Centers for Disease Control*

Temporal changes in the geographic disparity of heart disease mortality: All Americans and racial subgroups

Steven Reader, *University Of South Florida*

County-level geographic variation in cardiac deaths by transportation response: The national picture, 1991-2000

1:45 – 3:05 CHAPARRAL ROOM

HEALTH INEQUALITIES

CHAIR: SARAH CURTIS

Erik R. Sund, *Norwegian University of Science and Technology.*

Geography, social inequality and health in a welfare state

Jürgen Schweikart, *Technische Fachhochschule Berlin*
Spatial disparities in the ambulatory medical supply in Germany.

Mark W. Skinner, *Queen's University*
Transcending public-private: narratives of non-profit and for-profit providers of long-term care in rural Ontario

James Roland Dunn, *University of Toronto*
Income inequality, public services and all-cause mortality in United States

Gavin J Andrews, David R Phillips, Janine Wiles, Malcolm Cutchin
Geographical Gerontology in the twenty-first century: being 'critical', being relevant'

**3:15 – 4:35 ALAMO ROOM
MANAGING DISEASE AND HEALTH POLICY
CHAIR: THOMAS KRAFTT**

Richard Ohwofasah Djukpen
Geography Department, University of Illinois, Urbana IL
Towards an effective HIV/AIDS management in Nigeria using exploratory spatial data analysis

Joseph R. Oppong, *University of North Texas*
HIV/AIDS in Teens and Young Adults in Urban Texas

Clive Sabel, *University Of Canterbury*
The modification effect of deprivation and pollution on the location of cardio-respiratory disease clusters in Christchurch, New Zealand

Ronald E. Cossman, *Mississippi State University*
Using prescription data to inform health policy

**3:15 – 4:35 CHAPARRAL ROOM
NEIGHBORHOODS AND HEALTH
CHAIR: MICHAEL TIEFELSDORF**

Matt Cox, *University of St Andrews*
Selective migration and Type 2 diabetes: do diabetics become more deprived over time?

Anneliese Poetz, *McMaster University*
Self-rated health within a structural equation model of the neighborhood

Andrew Beer, *Flinders University of South Australia*

The relationship between housing and health: Insights from an analysis of the impacts of an automotive plant closure

Robert Pampalon, *INSPQ*

Neighborhood differences in perception of place and health in the region of Québec

**6.00 PM CONFERENCE BANQUET – TEXAS BARBEQUE
CLOSING CEREMONY**