School of Biological Sciences Section of Applied Statistics



Recent Developments in Capture-Recapture Methods and their Applications 12-13 July 2007

Conference Programme

Organisation

Scientific Committee

- Dankmar Böhning (Chair & Organisation)
 Section of Applied Statistics, University of Reading, UK
- David Borchers
 School of Mathematics & Statistics, University of St. Andrews, UK
- Mike Dennett Section of Applied Statistics, University of Reading, UK
- James Gallagher
 Section of Applied Statistics, University of Reading, UK
- Peter van der Heijden Utrecht University, NL
- Karen Ayres
 Section of Applied Statistics, University of Reading, UK

Contact details

Lynne Rogers, Conference Administrator

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Section of Applied Statistics School of Biological Sciences

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Conference received support from:

- MINITAB
- Chapman & Hall / CRC
- Wiley & Sons
- School of Biological Sciences, University of Reading

Thursday 12th July: Morning (Nike Theatre, Agriculture Building)

Tildi Saay 12	2th July: Morning (Nike Theatre, Agriculture Bullding)
0900 - 0915	Welcome
	Professor Gordon Marshall, Vice-Chancellor of the University of Reading Professor Nick Battey, Head of School of Biological Sciences Dr Mike Dennett, Head of Section of Applied Statistics
0915 - 1000	Opening Keynote Session (Chair: Dankmar Böhning)
	Anne Chao Institute of Statistics, National Tsing Hua University, Taiwan The applications of capture-recapture models to biodiversity estimation and epidemiological surveillance
1000 - 1030	Invited Speakers I (Chair: Stephen E. Fienberg)
	Ken Burnham Department of Fishery and Wildlife Biology, Colorado State University, USA Challenges and opportunities for analysis of capture-recapture data
1030 - 1100	Coffee (1L04 Agriculture Building)
1100 - 1215	Contributed Papers I (Chair: Slava Epstein)
	Kathryn Barger Cornell University, USA Bayesian Estimation of the Number of Species using Noninformative Priors
	Elizabeth Turner, Alain C. Vandal, Russell J. Steele McGill University, Canada Modelling source dependence with random effects
	Alessio Farcomeni and Luca Tardella University of Rome "La Sapienza", Italy Default Bayesian Methods for Capture-Recapture Models
1215 - 1330	Lunch (Foyer Agriculture Building)

Thursday 12th July: Afternoon (Nike Theatre, Agriculture Building)

	Lunch (11.04 Agriculture Building)									
	Lunch (1L04 Agriculture Building)									
1330 - 1500	Invited Speakers II (Chair: Anne Chao)									
	Stephen E. Fienberg Department of Statistics, Carnegie Mellon University, USA Multiple systems estimation for population estimation, record linkage, and missing data: integration of methodology									
	Changxuan Mao Department of Statistics, University of California at Riverside, USA Population size estimation: log-linear models, mixture models, and connections									
	Ruth King School of Mathematics and Statistics, University of St Andrews, UK Recent advances in Bayesian analysis of ecological capture- recapture data									
1500 - 1530	Tea (1L04 Agriculture Building)									
1530 - 1645	Contributed Papers II (Chair: Chukiat Viwatwongkasem)									
	Yan Wang and Joanne Thandrayen University of South Australia, Australia Estimating the number of homeless people in Adelaide CBD using capture-recapture method									
	Irene Schmidtmann IMBEI, University Hospital of Johannes Gutenberg-Universität Mainz, Germany Estimating completeness in cancer registries – comparing methods in a simulation study									
	Raika Durusoy and Ali Osman Karababa Ege University Medical School, Izmir, Turkey Evaluation of the surveillance of serologically detectable communicable diseases in Izmir in 2003 through laboratory data and estimation of numbers of cases through capture-recapture									

Thursday 12th July: Late Afternoon (G03, Harry Pitt Building)

Poster Session - sponsored by MINITAB (wine and snacks available) 1. Bernard Baffour, Division of Social Statistics, University of Southampton, UK. Triple System Estimation of Census Underenumeration 2. Sarah Brittain, Applied Statistics, University of Reading, UK. A Comparison of Estimators for the Two-Source Situation 3. Andrew Grant, Statistics Unit, Health Protection Agency, London, UK. The Lincoln—Petersen Model—Are All the Parameters Needed? 4. Krisana Lanumteang, Applied Statistics, University of Reading, UK. Extending Zelterman's Estimator 5. Chandanie Naravatna, Department of Mathematics and Computer Science, Open University of Sri Lanka, Sri Lanka. Extending Zelterman's Estimator of Population Size to Clustered Data 6. Isak Neema. Applied Statistics, University of Reading, UK. Estimating the Size of a Criminal Population from Police Statistics—a Capture-Recapture (CR) Approach 7. Busaba Supawattanabodee, Clinical Epidemiology Unit, Vajira Hospital, Bangkok, Thailand. Estimating the Number of Drug Users in Bangkok: A Capture-Recapture Method 8. Laure Vaissade, Chargée d'études au pôle "Indicateurs" Observatoire Français des Drogues et des Toxicomanies (OFDT), Paris, France. Estimating the prevalence of drug misuse using capture-recapture in six French cities 9. Dankmar Böhning, Applied Statistics, University of Reading, UK. Capture-Recapture Techniques in Human Populations Posters should be put on boards in G03 (Harry Pitt Building) during Thursday prior to the session! Prizes will be given to the two best posters	TiluiSuay	izth July: Late Afternoon (G03, Harry Pitt Bullding)
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1930 - 2200 Conference Dinner (Blue Room, Park House)		Prizes will be given to the two best posters
	1930 - 2200	Conference Dinner (Blue Room, Park House)

Friday 13th July: Morning (Nike Theatre, Agriculture Building)

Triday Totil daly. Worling (Trince Tricatic, Agriculture Bullaing)									
0900 - 1030	Invited Speakers III (Chair: John Bunge)								
	David Borchers School of Mathematics & Statistics, University of St. Andrews, UK Spatially explicit maximum likelihood methods for capture-recapture studies								
	Slava Epstein Faculty of Biology, North-eastern University, USA Estimation of global microbial richness								
	Jean-Dominique Lebreton CEFE, CNRS, France								
	Heterogeneity in open population models: estimating the number of wolves in the French Alps based on molecular data								
1030 - 1100	Coffee (1L04 Agriculture Building)								
1100 - 1230	Invited Speakers IV (Chair: David Borchers)								
	Shirley Pledger School of Mathematics, Statistics and Computer Science, Victoria University, Wellington, New Zealand Using mixtures to model heterogeneity in capture-recapture models								
	Maarten Cruyff Utrecht University, Netherlands Population size estimation using counts derived from a single registration:truncated Poisson and negative binomial regression, and mixtures								
	Victor Javier del Rio Vilas Veterinary Laboratories Agency, UK Sleepless nights counting missing sheep: applications of capture- recapture models to scrapie in Great Britain								
1230 - 1400	Lunch (1L04 Agriculture Building)								

Friday 13th July: Afternoon (Nike Theatre, Agriculture Building)

Triday 15ti	July: Afternoon (Nike Theatre, Agriculture Building)
1400 - 1500	Invited Speakers V (Chair: Peter van der Heijden)
	Gordon Hay Centre for Drug Misuse Research, University of Glasgow, UK Capture-recapture methods to estimate the prevalence of problem drug use at the national and local level
	Chukiat Viwatwongkasem Biostatistics, Public Health, Mahidol University, Thailand Estimating population size using the truncated count model allowing for contaminations
1500 - 1530	Tea (1L04 Agriculture Building)
1530 - 1620	Contributed Papers III (Chair: Gordon Hay)
	Romesh Silva Demography Department, University of California, Berkeley, USA Estimating Conflict-Related Mortality in Timor-Leste, 1974-1999: A Comparative Review of Demographic and Capture-Recapture Estimation Methods
	Rujirek Boosarawongse Department of Applied Statistics, KMIT Ladkrabang, Bangkok, Thailand The Estimated Variance for the Zelterman Estimator of the Population Size
1620 - 1720	Invited Speakers VI (Chair: Shirley Pledger)
	Peter van der Heijden Department of Statistics and Methods, Utrecht University, The Netherlands Multiple record systems estimation with structurally missing data patterns
	Byron Morgan Institute of Mathematics, Statistics and Actuarial Science, University of Kent, UK New methods for including covariates in models for the survival of wild animals
1720 - 1805	Closing Keynote Speaker (Chair: Byron Morgan)
	John Bunge Department of Statistical Science, Cornell University, USA Connecting abundance and incidence models
1805 - 1820	Closing Remarks and Poster Prize Award

Conference Venue

The conference will be based in the Nike Theatre in the Agriculture building, with state-of-the-art lecture theatre facilities. The **Agriculture building** is situated at the Earley Gate end of Whiteknights campus.



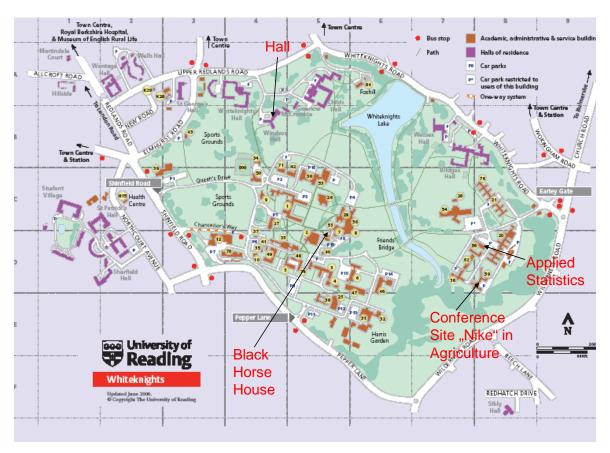
The poster session on Thursday afternoon (17.00- 18.30) will take place in the ground floor (G03) of the **Harry Pitt building (Applied Statistics)** which is located close to the Agriculture building at Earley Gate where most of the conference takes place.



Coffee/Lunch/Tea: 1L04 Agriculture Building

Exhibitors: 1L04 Agriculture Building

Map of Whitenights Campus



(explanations of numbers: see **next page**)

Name & grid ref	Building												
29 3sixty bar C5	Students' Union	8	Commercial Services, Residential and	Park House	59	Farm Management Unit D8	Agriculture	42	Languages and Euro- pean Studies C5	Language Resource Centre (incl Uni Bookshop)	71	Snack Bar C4	ICMA Centre
41 Accommodation Office D4	Whiteknights House Annexe		Catering D6		27		Whiteknights House	84	Law A6	Foxhill House	1	Snack Bar C5	HUMSS
59 Agricultural and	Agriculture	27	Communications	Whiteknights House		Fine Art D8	TOB 1		Library D5	Toximi House	29	Snack Bar C5	Students' Union
Food Economics D8	Agriculture	20	Office C4	Customa Faminassina		Food Biosciences D6	Food Bioscience and Pharmacy		Linguistics & Applied	ZZMIIH	54	Snack Bar C7	Science & Technology Ce
59 Agriculture D8	Agriculture		Computer Science E5			French Studies C5	HUMSS	•	Language Stud-	11011133	59	Snack Bar D8	Agriculture
48 Allen Laboratory D5	•	33	Construction Management and Engineering D4	URS Building		Fusion Café C7	Science & Technology Centre	55	ies C5 Lloyds Bank C5	Black Horse House	76	Social Club (Employ- ees) C8	TOB 2
59 Analytical Labora- tory D8	Agriculture	N15	Counselling Service	University Health Centre &	49	Geography D4	Geography	1	Management (Dept	HUMSS	1	Sociology C5	HUMSS
1 Applied Linguistics	HUMSS		C2	Dental Centre	5	Geoscience D4	Geoscience		of) C5		70	Soil Science D4	Soil Science
56 Applied Statistics D7	Harry Pitt	59	Crop Protection Unit D8	Agriculture	1	German Studies C5	HUMSS	-	Mathematics D5 Medical Practice C2	Mathematics & IT Services University Health Centre &	62	Speech and Language Therapy	Psychology
74 Archaeology D5	Archaeology	38	Cybernetics E5	Systems Engineering	50	Grounds Mainte- nance Office C4	Facilities Management	NID	Medical Fractice C2	Dental Centre		Clinic D7	
43 Athletics Pavilion B3	Athletics Pavilion	N15	Dental Centre C2	University Health Centre &	3/1	Grounds Mainte-	Facilities Management	58	Meteorology D7	Meteorolgy	39	Sports Centre C2	Wolfendon Sports Centre
31 Biocentre	Plant Sciences			Dental Centre	34	nance Yard B4	racinties Management	56	MPS Unit D7	Harry Pitt			Squash Courts)
55 Black Horse House C5	Black Horse House	10	Development and Alumni Relations	Blandford Lodge	3	Health & Safety Services D5	Physics	37	Muslim Centre D4	Archway Lodge	56	Statistical Services Centre D7	Harry Pitt
42 Bookshop C5	Language Resource Centre (incl Uni Bookshop)	26	D4 Dolché Vita Café	Palmer Building	N15	Health Centre & Dental Centre C2		47	National Centre for Biotechnology Education D6	Food Biosciences	27	Student Recruitment & Schools Liaison C4	Whiteknights House
59 British Council D8	Agriculture	33	Economics D4	URS Building	1	History C5	HUMSS	8	Orange Room	Students' Union Extension	27	Student Services C4	Whiteknights House
27 Business Develop-	Whiteknights House	1	Economics C5	HUMSS	1	History of Art C5	HUMSS		(Restaurant) C6		29	Students' Union C5	
ment Office C4		25	Electronic Engineer-	Engineering	5	Human and Environ-	Geoscience	26	Palmer Building C5		29	Students' Union	Students' Union
1 Business School C5	HUMSS	25	ing E5	Engineering		mental Sciences D4		35	Pensions Office D4	Blandford East		Nursery C5	
33 Business School D4	URS Building		Engineering E5	Engineering	1	Humanities and Social Sciences	HUMSS	6	Pharmacy D6	Chemistry and Pharmacy	800	Synthetic Turf Pitch B4	Synthetic Turf Pitch
42 CALS (Centre for Applied Language	Language Resource Centre (incl Uni Bookshop)	'	English and Ameri- can Literature C5	HUMSS		(HumSS) C5		47	Pharmacy D6	Food Biosciences and Pharmacy	21	Typography &	TOB 2
Studies) C5		21	Enterprise Hub C8	TOB 2		Indigo C6	Students' Union Extension	1	Philosophy C5	HUMSS		Graphic Communi- cation C8	
10 Careers Advisory Service D4	Blandford Lodge	30	Environmental Biology & BioMolecular	AMS	32	Informatics Research Centre E6	Philip Lyle	3	Physics D5	Physics	21	University of Read-	TOB 2
, ,	The Cedars		Sciences C5		35	Insurance Office D4	Blandford East	31	Plant Sciences E6	Plant Sciences		ing Pre-school C8	
D5 Sentre for Agricultural Strategy D8	Agriculture	31	Environmental Biology & BioMolecular Sciences E6	Plant Sciences	42	Institute-wide Lan- guage Programme C5	Language Resource Centre (incl Uni Bookshop)	1	Politics & Interna- tional Relations C5	HUMSS	1	Ure Museum of Greek Archaeol- ogy C5	HUMSS
59 Centre for Agri-	Agriculture	53		AMS (Microbiology wing)	59	International and	Agriculture	62	Psychology D7	Psychology	33	URS D4	URS
Environmental Research D8	, ig. cuiture		ogy & BioMolecular Sciences C5		33	Rural Develop- ment D8	rigireated	8	Purchasing Depart- ment C6	Park House	59	Veterinary Epidemiology and	Agriculture
10 Centre for Career Management Skills	Blandford Lodge	32	Environmental Biology & Computational Biology E6	Philip Lyle	49	International and Study Abroad Of-	Geography	26	Reading Film Theatre C5	Palmer Building		Economic Research Unit (VEERU) D8	
1 Centre for Entrepre- neurship C5	HUMSS	56	ESSC (Environmental Systems Science	Harry Pitt	71	fice D4 ICMA Centre C4	ICMA Centre	46	Reading Scientific Services Ltd (RSSL) D6	The Lord Zuckerman Research Centre	27	Vice-Chancellor's Office C4	Whiteknights House
41 Centre for the Inter- national Founda-	Whiteknights House Annexe		Centre) D7				Mathematics & IT Services	33	Real Estate and	URS Building	27	Whiteknights House C4	
tion Programme D4		50	Estates Services Dept C4	Facilities Management		Italian Studies C5	HUMSS		Planning D4		59	Widening Participa-	Agriculture
10 Chaplaincy Centre D5	Park House Lodge	1	European Studies C5	HUMSS		Japanese Studies C5 Joint Faculty Office	HUMSS Physics	28	Reading University Atmospheric Obser-			tion D8	
6 Chemistry D6	Chemistry and Pharmacy	50	Facilities Manage- ment Division C4	Facilities Management	3	for Science and LifeSciences - Ad-	rityalCa	27	vatory C7 Research & Enter-	Whiteknights House			
1 Classics C5	HUMSS	1	Faculty of Arts and	HUMSS		min & PG D5			prise Services C4	-			
62 Clinical Language Sciences D7	Psychology		Humanities Of- fice C5		59	Joint Faculty Office for Science and	Agriculture	54	Science & Technol- ogy Centre C7	Science & Technology Centre			
30 Cole Museum of Zoology C5	AMS	1	Faculty of Economic and Social Sciences	HUMSS		LifeSciences - UG D8		27	Security Office C4	Whiteknights House		Whitekni	ghts
33 College of Estate Management D4	URS Building		Office C5		38	Knowledge Transfer Centre E5	Systems Engineering	8	Senior Common Room D6	Park House		Updated June 20	

Science & Technology Centre

Wolfendon Sports Centre (inc Squash Courts)