Wednesday 13 October   *Updated version: 1st of October 2004*

8:15   9:00 *Registration*

		Plenary Session Chairman:	Aula Unimail *Amilcar Soares*
9:00	9:15	Opening	
9:15	10:00	C. A. Gotway Crawford and L. J. Young	Keynote lecture: Change of support: An inter-disciplinary challenge
10:00	10:30	*Coffee Break*	
10:30	11:00	P. Goovaerts and G. Jacquez	Detection of spatial clusters and outliers using the lisa statistics and geostatistically simulated spatial neutral models
11:00	11:30	N. Desassis, P. Monestiez, J-N. Bacro, Ph. Lagacherie, J-M. Robbez-Masson	Mapping unobserved factors on vine stock mortality by model-based kriging
11:30	12:00	L. Feyen and J.Caers	Multiple-point geostatistics: a powerful tool to improve groundwater flow and transport predictions in multi-modal formations
12:00	12:30	D. D'Or	Towards a real-time multiphase sampling strategy optimisation

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12:30	14:00	*Lunch*	Cité Universitaire

Parallel Sessions

		Remote sensing Chairman:	Aula Unimail *Peter Atkinson*
14:00	14:30	P. Bottelier, C. Briese, N. Hennis, R. Lindenbergh, N. Pfeifer, G. Sithole	Distinguishing features from outliers in automatic kriging-based filtering of mbes data: a comparative study.
14:30	15:00	C. Lloyd, P. Atkinson, P. Aplin	Characterising spatial variation in land cover imagery using geostatistical functions and the discrete wavelet transform
15:00	15:30	J. Carvalho; J. Delgado-garcía and H. Cateno	Merging landsat and spot digital images using geostatistical stochastic simulation

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15:30	16:00	*Coffee Break*	

		Hydrogeology and surface water Chairman:	Aula Unimail *Ghislain de Marsily*
16:00	16:30	H.-J. Hendricks Franssen, F. Stauffer and W. Kinzelbach	Inverse stochastic estimation of well capture zones with application to the lauswiesen site (tübingen, germany)

16:30	17:00	B. Ortuani	Inverse problem for highly heterogeneous porous media: the factorial geostatistical analysis in differential system method
17:00	17:30	P. Pasquier and D. Marcotte	A fast and simple method to solve the groundwater inverse problem: the successive flux estimation method
17:30	18:00	C. Bernard-Michel and C. de Fouquet	Construction of geostatistical indicators for the estimation of waterway's quality

		Air, Ecology & Health	Auditoire Louis Guillaume
		Chairman:	*Pascal Monestiez*
14:00	14:30	A.M. Russo and A.M. F. Bio	Sines bio-ar: air quality models resulting from multi-source emissions
14:30	15:00	M. Bouleau and N. Bez	Simplification of cokriging by a markov-type model : application to combine acoustic and trawl data in fish surveys.
15:00	15:30	U. Mueller, L. Bloom, M. Kangas, N. Caputi and T. Tran	The delineation of allowed fishing times and locations for the shark bay scallop fishery

| 15:30 | 16:00 | *Coffee Break* | |

		Soil contamination	Auditoire Louis Guillaume
		Chairman:	*Hélène Demougeot-Renard*
16:00	16:30	A. Papritz, C. Herzig, F. Borer and R. Bono	Modelling the spatial distribution of copper in the soils around a metal smelter in northwestern Switzerland
16:30	17:00	E.J. Pebesma, R.N.M. Duin	Spatio-temporal mapping of sea floor sediment pollution in the North Sea
17:00	17:30	R. Parkin, E. Savelieva, M. Serre	"soft" geostatistical analysis of radioactive soil contamination
17:30	18:00	F. Bação, S. Caeiro, M. Painho, P. Goovaerts, M.H. Costa	Delineation of estuarine management units: evaluation of different methods

| 18:00 | 20:30 | *Posters + Technical exhibition* *With drinks and snacks* | |

Thursday 14 October

		Plenary Session	Aula Unimail
		Chairman:	*Jaime Gómez-Hernández*
8:45	9:30	G. de Marsily	Keynote lecture: Dealing with spatial heterogeneity in hydrogeology
9:30	10:00	M. Genton	Separable approximations of space-time covariances

10:00	10:30	M. Huysmans, A. Berckmans and A. Dassargues	Simulation of radionuclide mass fluxes in a heterogeneous clay formation locally disturbed by excavation
10:30	11:00	*Coffee Break*	
11:00	11:30	A. Pozdnoukhov and M. Kanevski	Monitoring network optimisation using support vector machines
11:30	12:00	R. Ababou and A. Al-Bitar	Random function generation, estimation, and conditioning : applications to hydrogeologic problems (aquifer flow , seawater intrusion)
12:00	12:30	O. Jaquet and R. Carniel	Forecasting volcanic eruptions using geostatistical methods
12:30	14:00	*Lunch*	Cité Universitaire

Parallel Sessions

		Hydrogeology Chairman:	Aula Unimail *Fritz Stauffer*
14:00	14:30	D. Fernàndez-Garcia and J. Jaime Gómez-Hernández	Strategies to determine dispersivities in heterogeneous aquifers
14:30	15:00	M. Riva, M. De Simoni and M. Willmann	Effect of variogram model choice on flow and travel time predictors in radial flows
15:00	15:30	S. Cintoli, S. P. Neuman and V. Di Federico	Scaling effects on finite-domain fractional brownian motion
15:30	16:30	*Poster + exhibition and coffee break*	

		Hydrogeology Chairman:	Aula Unimail *Rachid Ababou*
16:30	17:00	B. Dafflon, J. Tronicke and K. Holliger	Estimation of the lateral correlation structure of the shallow subsurface from surface georadar data
17:00	17:30	C. Castillo, X. Sanchez-Vila, L. Núñez and A. Guadagnini	Residence time of sorbent solutes under radial flow conditions. conditional statistical moments.
17:30	18:00	K.-J. Röhlig, H. Fischer and B. Pöltl	Modelling density-dependent flow using conductivity distributions obtained by means of instationary indicator simulation

		Ecology & Health Chairman:	Auditoire Louis Guillaume *Denis Allard*
14:00	14:30	N. Jeannée, V. Nedellec, S. Bouallala, J. Deraisme and H. Desqueyroux	Geostatistical assessment of long term human exposure to air pollution

14:30	15:00	L. Bel, J.M. Dubois, A. Bar-Hen, D. Allard and R. Cheddadi	A spatial extension of CART: application to classification of ecological data
15:00	15:30	D. Doktor, F. W. Badeck, F. Hattermann and J. Schaber	Analysis and modelling of spatially and temporarily varying phenological phases

15:30	16:30	*Poster + exhibition and coffee break*	

		Climate Chairman:	Auditoire Louis Guillaume *Noel Cressie*
16:30	17:00	I. Cañamón, M.C. Domínguez, A. Mangin, F.Z. Elorza, and A. Eraso	For a better comprehension of subpolar glaciers discharges with the aid of correlation and spectral analysis
17:00	17:30	F.S. Gomes de Oliveira and R. Imbrozio Barbosa	Maximum likelihood geostatistical missing data estimation

18:30	19:30	*Cultural event - Visit of the Latenium Museum*	
	20:00	*Conference Dinner - Hôtel DuPeyroux*	

Friday 15 October

		Plenary Session Chairman:	Aula Unimail *Pierre Goovaerts*
8:30	9:00	C. Nunes and A. Soares	Variogram estimation with noisy data in the space-time domain: application to air quality modelling
9:00	9:30	F. Stauffer and H.-J. Hendricks Franssen	Uncertainty estimation of well catchments: a semi-analytical post-processing for groundwater modelling
9:30	10:00	R. Sidler and K. Holliger	Kriging of scale-invariant data: optimal parametrization of the autocovariance model

10:00	10:30	*Coffee Break*	

10:30	11:00	P. Bogaert and M.A. Wibrin	Combining categorical and continuous information within the bayesian maximum entropy paradigm
11:00	11:30	J. Pilz, P. Pluch and G. Spoeck	Bayesian kriging with lognormal data and uncertain covariance parameters
11:30	12:00	N. Cressie, J. Zhang, and P. F. Craigmile	Geostatistical prediction of spatial extremes and their extent

12:00	12:30	**Closing of the conference**	

12:30	14:00	*Lunch*	Cité Universitaire

Air

C. de Fouquet, D. Gallois, L. Malherbe, G. Cardenas and G. Perron	Mapping annual nitrogene dioxide concentrations above Mulhouse urban area
F. Ferreira, S. Mesquita, P. Torres and H. Tente	Using systematic diffusive sampling campaigns and geostatistics to map air pollution in Portugal
G. Cardenas and L. Malherbe	Mapping air quality using a geostatistical approach: Application to a regional ozone measurement campaign in the North of France

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Ecology and health

C. Vinagre, V. Fonseca, H.N. Cabral and M.J. Costa	Habitat suitability index models for the sympatric soles Solea solea and Solea senegalensis using GIS procedures
E. Järpe	Modelling and monitoring epidemics by means of spatio-temporal lattices
S. Bocchi, A. Castrignanò and L.S. Viganò	Agrogeomatic techniques application for a more precise management of corn (Zea mays L.)

Groundwater and Hydrology

A. Assteerawatt, A. Bardossy and R. Helmig	Generation of fracture network based on geostatistical approach
A. Gutiérrez and M. Preciado	A geostatistical approach for rainfall patterns, using proximity indices
E. Mendoza, G. Herrera and M. Díaz	Cokriging of the phreatic level using a digital elevation model
G.A. Onnis, H.J. Hendricks Franssen, F. Stauffer and W. Kinzelbach	Stochastic inverse modeling of groundwater flow and environmental tracer transport: Baltenswil case study (Switzerland)
J. Kerrou, P. Renard, I. Lunati, S. Madier and H.J. Hendricks-Franssen	How many transmissivity data are required to safely delineate a protection zone in a braided alluvial aquifer when using kriging and upscaling?
J.O. Skøien, G. Blöschl	Spatio-temporal geostatistical analyses of runoff and precipitation
M. Jalali	Mapping spatial distribution of nitrate contamination of groundwater in Hamadan, Western Iran

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Theory

C. Regli, P. Huggenbergera and L. Rosenthaler	GEOSSAV: a simulation tool for subsurface applications
P. Juan, E. Porcu and J. Mateu	Testing independence for spatial processes through spectral analysis

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Soil

B. Cafarelli, A. Castrignanò and N. Romano	A study of the spatial variability of soil water retention by mixed effects linear models with a spatial continuous autoregressive correlation structure
C. Hervada, E. Jarauta, Y.G. Tyutyunnik, S.M. Bednaiya and N.D. Kuchma	Environmental radioactive pollution: biogeochemical assessment of 90Sr in trees using geostatistical methods. Theory, methodology and a case study
C. Hofer, A. Papritz and A. Borer	Estimating the frequency of polluted soils in allotment gardens and mapping their spatial distribution using proxy data
C.R. Grego and S.R. Vieira	Analyzing of variability for soil moisture content in the space and time
F. Largueche	Use of kriging to assess the ground contamination
F. Weibel	Survey and evaluation of land use and land cover in switzerland
J.H. Flores Ruiz, A. Mejía Ramírez, J. Fucugauchi Urrutia, E. Hernández-Quintero and G Domínguez Zacarías	Geostatistical model for total petroleum hydrocarbons (tph) in santa alejandrina porous media, veracruz (méxico)
J.M. Carvalho and A. Fiúza	Application of geostatistics to soil and groundwater samples contaminated by petroleum products – A case study
L. Eisenlohr and V. Laperche	Soil sampling strategy versus mapping element concentration in contaminated sites
M. Maignan, M. Kanevski, F. Celardin and A. Besson	Mapping and simulations of geneva soils, using geostatistics and ANN
A.A. Montenegro, W. Lundgren, S.M.G.L Montenegro	Cokriging field measured soil hydraulic conductivity and texture in a brazilian semi-arid watershed
R. Lilla Manzione, G. Camara, A. M. Vieira Monteiro, C.R. Lopes Zimback and S. Druck Fucks	Exploring the multivariate spatial structure of soil acidity data
S. Pfleiderer, H. Reitner, H. Pirkl, P. Klein and M. Heinrich	Temporal and spatial variations of geo-environmental parameters in soil, rock and groundwater samples of the northern calcareous alps in austria
S. Sgallari, R. Bruno and C. Zampighi	Sampling plan criteria for the bottom mud characterisation of a drainage channel

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Other

J. M. Matías, C. Ordóñez and J. Taboada	Using ordinal support vector machines to model the risks associated with the transportation of hazardous goods

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