Program of the 8th Annual Conference of the IAMG

September 15 – 20 2002

Berlin, Germany

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Acknowledgements

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- Freie Universität Berlin
- Rüdersdorfer Zement GmbH
- Naturkundemuseum of Humboldt-Universität Berlin.

The success of this conference would not have been possible without the dedication of our lecturers and contributors.

The Local Organizing Committee

Next year's IAMG meeting will be held in the UK

from
September 7 – 12
2003

at the
University of Portsmouth, UK

focus:
Analysis, modelling and simulation of geological hazards

You'll find more details on the official web site:
http://www.iamg2003.com

P R E S E N T A T I O N

Welcome to the annual meeting of the International Association for Mathematical Geology.

This program contains the schedule of the 18 sessions of IAMG2002 being held at the Freie Universität Berlin, 15-20 September 2002. The contributions listed in this program include six keynote lectures, 194 oral presentations, 69 posters and 4 software presentations. We will have four parallel sessions and eight plenary sessions for poster presentations, keynote speakers and IAMG Award Ceremonies.

The International Scientific Committee would like to thank all authors for submitting papers and all conveners for their willingness to review abstracts and to chair sessions.

On behalf of the Local Organising Committee and all other people involved in planning the conference, we wish you a pleasant stay in Berlin and a productive meeting.

Heinz Burger & Wolfdietrich Skala
Conference Chairs

Agnes Schumann
Conference Secretary

F O R Y O U R I N F O R M A T I O N

A. Oral Presentations

- Duration : 15 minutes plus 5 minutes discussion
- Please install your presentation file(s) at least one hour before your session starts Assistance will be available during the morning (from 7:30 until 8:30 am, during coffee break and lunch time). After the session you may delete your file(s) yourself or they will be deleted after the conference.
- If you need your own laptop for presentation, please install it during the 5-minutes discussion time of the preceding presentation.
- Please contact your convener before the session starts and provide him with necessary information about your person.

B: Poster & Software Presentations

(contact **René Prissang** for assistance)

- In the morning of the respective day, please fix your poster to the panel indicated with your name and session. Material for fixing the poster will be available on site for you.
- During a plenary session you will have **one minute** for giving a short introduction to your poster. This introduction is followed by a one-hour plenary poster session during which you should be present at your poster for presentation and discussion.
- Posters should be removed at the end of the day.
- Software presentation will be in room SR 53.

C: Workshops

- There will be a special leaflet about workshops available at the registration desk.

Special events and announcements

SUNDAY, 15th :

6.00 pm	Icebreaker party
4.00 pm	IAMG Council Meeting Location: SR 49

MONDAY, 16th:

8.45 am – 12.00 pm	Social program: Guided sight-seeing tour through Berlin
10.00 am	Opening ceremony Keynote talk: Kanti V. Mardia „Why is Directional Statistics Pivotal to Geosiences?“
5.30 pm	Keynote talk: Roger J. Suthren „Geoscience Teaching and Learning on the Web: Where Next?“
6.15 pm	General Assembly of IAMG members (Location: Audi Max)

TUESDAY, 17th:

8.45 am – 2.00 pm	Social program: Guided sight-seeing tour through Potsdam, the Palace of Sanssouci and the park of Sanssouci - A world cultural heritage of the UNESCO.
2.00 pm	IAMG award ceremony Keynote talk: Ian Lerche „Don't tell me how right you want to be, tell me how wrong you could be“
8.00 pm	Keynote talk: Hans-Christian Hege „Data Visualization in Science: from Atoms to Galaxy Clusters“ Location: ZIB (Konrad-Zuse-Institute, Takustr. 7, lecture room)

WEDNESDAY, 18th:

11.30 am – 2.30 pm	Social program: Guided tour through the Pergamon Museum
3.00 pm	Keynote talk: M. E. Hohn “The role of the international associations in the geosciences” Keynote talk: Jean-Laurent Mallet „Geomodeling“
8.00 pm	Official dinner in the glass house / Botanic Garden

THURSDAY, 19th:

9.00 am – 12.00 pm	Informal meeting of session N
10.00 am – 12.00 pm	Guided tour through the Berlin Museum of Natural History

FRIDAY, 20iest:

8.15 am – 5.00 pm	Guided geological field trip to the Rüdersdorf quarry

Social program and field trips (registration required)

Social Program (for accompanying persons)

Guided sight-seeing tour Berlin:
This guided round-trip intends to show you both the new capital of germany with its governmental buildings and representative sites (Kanzleramt, Reichstag, Potsdamer Platz, etc) and the well known historical places like Brandenburger Tor, Unter den Linden Blvd., Island of the museums. The tour will take about 3 hours.

Guided sight-seeing tour Potsdam:
This guided trip will take you to the Palace of Sanssouci, the former summer residence of King Friedrich 2nd (Friedrich the Great, 1740-1786) and the Park of Sanssouci - A world cultural heritage of the UNESCO. A special guided tour through the palace and ist fabulous park will be held. The tour will take about 5 hours.

Guided tour through the Pergamon Museum:
On Wednesday you will be guided through the famous Pergamon Museum. You will see the The Collection of Classical Antiquities containing Greek and Roman works including not only architectural remains, sculptures and vases, inscriptions and mosaics but also bronzes and jewellery. The tour will take about 2 hours.

MEETING POINT FOR THE SOCIAL PROGRAM: MAIN ENTRANCE OF THE CONFERENCE BUILDING

IMPORTANT NOTE:
YOU ARE KINDLY REQUESTED TO SHOW UP 15 MINUTES PRIOR **TO THE ANNOUNCED BEGINNING (SEE PROGRAM ‚SPECIAL EVENTS AND ANNOUNCEMENTS') OF EACH TOUR.**

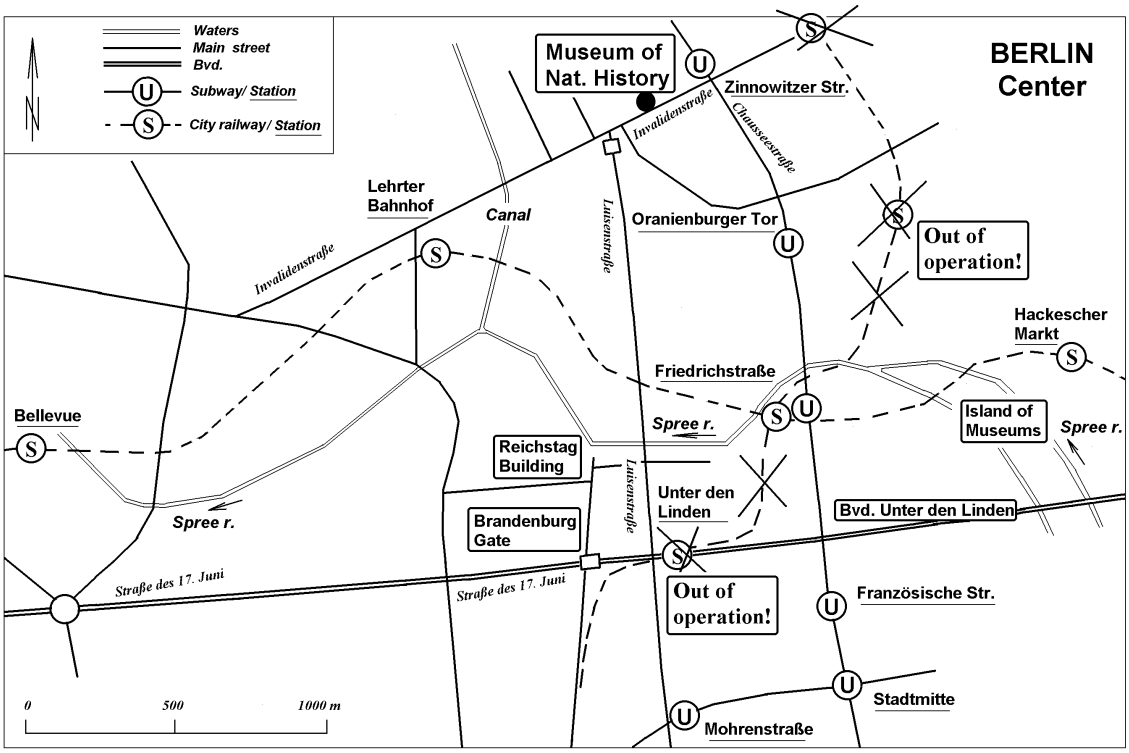
Geological and Palaeontological Field Trips

Museum of Natural History:
Discover the Berlin Museum of Natural History by a guided tour through the amazing mineralogical collection, the singular collection of meteorites and the paleontological exhibition of dinosaurs! The Museum displays many zoological, paleontological, mineralogical and geological exhibits, among them numerous dioramas, more than 300 taxidermic preparations etc.
MEETING POINT: You are kindly requested to show up 15 minutes prior to the beginning **(10.00 am**) at the main entrance of the MUSEUM OF NATURAL HISTORY, Invalidenstr. 43, 10115 Berlin.
How to get there: Underground U6 to Zinnowitzer Straße (compare attached map). Please note that the Underground is the fastest way to get there, because the S-Bahn is temporarily out of service!

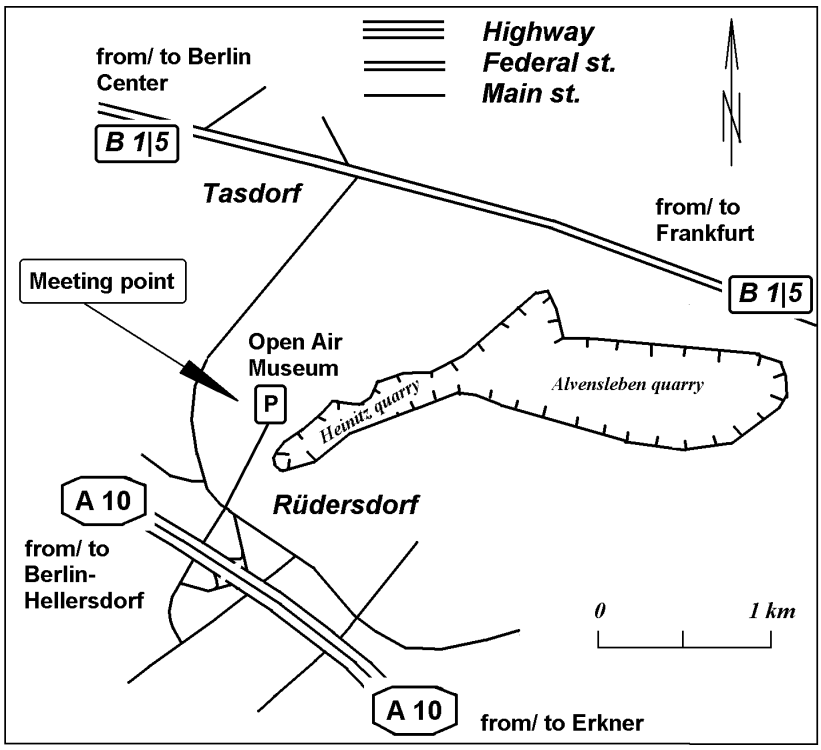
Rüdersdorf Quarry:
Rüdersdorf is a little village east of Berlin. 250m thick Triassic lime-stone (Muschelkalk) has been uplifted to the surface by halo-genetic processes. The limestone has been mined for more than 750 years. Today's 60 m deep open pit will be visited. By the way, the Rüdersdorf limestone deposit is the place where the Swedish geologist O. TORELL proved in 1875 the northern German Pleistocene continental glaciation by a correct interpretation of glacial stria at the top of the limestone layers.
MEETING POINT: MAIN ENTRANCE OF THE CONFERENCE BUILDING (FOR PEOPLE TAKING THE BUS-SHUTTLE)
People who will arrive in Rüdersdorf by car, please see attached map for routing instructions and the meeting point in Rüdersdorf next to the parking lot 'open air museum'.

You haven't registered yet?
Late registrees are kindly requested to sign up at the registration desk!

Overview map of public transportation and main roads to the Museum of Natural History



Map of the Rüdersdorf Area for people arriving by car (not by bus-shuttle). Please note the meeting point next to the open air museum, where you'll meet the other field-trip participants!



Technical Sessions

Session	Session Title	Convener
B	Geostatistical Modeling and Propagation of Uncertainty	Pierre Goovaerts, USA; Roland Froidevaux, Switzerland
C	Geostatistical Simulation	J. Jaime Gomez-Hernandez, Spain
D	Multivariate Geostatistics and Data Assimilation	Hans Wackernagel, France
E	Statistical Methods in Geology	John C. Davis, USA
F	Statistics of Petrochemical/physical Data	A. Buccianti, Italy; J. A. Martín-Fernández, Spain
G	Compositional Data Analysis: From Theory to Practice	V. Pawlowsky-Glahn, Spain; Hilmar von Eynatten, Germany
H	Spherical Problems in Geosciences	Helmut Schaeben, Germany
I	Bridging and integrating GIS and geostatistics	Grégoire Dubois, Belgium; Edzer J. Pebesma, The Netherlands
K	Geomodeling and Web Presentation	Robert Marschallinger, Gert Furtmüller, Austria
L	Interoperable and Mobile GIS - Developments and Applications	Martin Breunig, Andreas Thomsen, Germany
M	Spatial Databases	Agnès Voisard, Germany
N	Developments and Status of Standards, Dictionaries and Technologies for Geoscience	J. Broome, Canada; K. Asch, Germany
O	Studies in Mathematical Geology (General Session)	Dan Merriam, USA; Andrea Förster, Germany
P	Modeling Geochemical and Physical-Chemical Processes at the Earth's Crust	Nina Gorelikova, Irina Tchijova, Russia
Q	Fractals and Multifractals	Frederik P. Agterberg , Canada; Qiuming Cheng, Canada
R	Exogene Dynamics and the Lithosphere's Sediment Cover	Jan Harff, Germany; Victor Dech, Russia; Dan Tetzlaff, USA
S	Hydrogeology: Groundwater Monitoring and Quality Assessment	Maria-Th. Schafmeister, Germany
T	Quant. Models for Environmental Security: Focus on Representation and Perception	A. G. Fabbri, The Netherlands; Chang-Jo Chung, Canada

Timetable

	Monday, Sep 16	Tuesday, Sep 17	Wednesday, Sep 18	Thursday, Sep 19	Friday, Sep 20
8.30- 9.00 am	registration & coffee break	PS3 Q,R,O,G	PS7 C,M,R,F	*9.15 am - 4.45 pm* *tutorial workshops* *-workshop 1* *-workshop 2a/b* *-workshop 3* *-workshop 6* *9.00 am – 12.00 pm* *informal meeting of session N* *10.00 am - 12.00 pm* - *guided excursion at the Berlin Museum of Natural History*	*9.15 am - 4.45 pm* *tutorial workshops* - *workshop 4* - *workshop 5* *8.15 am - 5.00 pm* - *geological excursion to Rüdersdorf*
9.00- 9.30 am					
9.30-10.00 am					
10.00-10.30 am	opening ceremony *K.V. Mardia keynote talk*				
10.30-11.00 am		plenary poster introduction	plenary poster introduction		
11.00-11.30 am	PS1 B,S,H,E	poster presentation & coffee break I,O,G,Q	poster presentation & coffee break C,L,N,M,F,P,T		
11.30-12.00 am					
12.00-12.30 pm		PS4 K,H,Q,R	PS8 C,L,T,N		
12.30-1.00 pm					
1.00-2.00 pm	lunch	lunch	lunch		
2.00-3.00 pm	PS2 B,K,S,E	awards ceremony *I.Lerche keynote talk*	PS9 L,D,P,N		
3.00-4.00 pm		PS5 I,D,O,G	*M. Hohn keynote talk* *J.L. Mallet keynote talk* *presentation of the IAMG 2002 distinguished lecturer*		
4.00-4.30 pm	plenary poster introduction				
4.30-5.00 pm	poster presentation & coffee break B,E,K,H		coffee break		
5.00-5.30 pm		coffee break	PS10 N,L,P,T		
5.30-6.00 pm	*R.J. Suthren keynote talk*	PS6 L,N,C,T			
6.00-6.30 pm					
6.30-7.00 pm					
7.00-7.30 pm	*General Assembly of IAMG members*		break		
7.30-8.00 pm		break			
8.00 pm		*H. C. Hege keynote talk*	dinner		

MONDAY, 16th September 2002 – PS1

Time	Session B Location: SR 05	Session S Location: SR 49	Session H Location: SR 51	Session E Location: Audi Max
11.00	**P. Goovaerts, R.A. Viscarra Rossel and A.B. McBratney** Geostatistical modeling and propagation of uncertainty: Application to the management of agricultural fields	**S.M. Semenov and G.I. Batrak** Mathematical methods of hydro-geological forecasts accuracy and veracity estimation	**P.S. Lucio and N.L.C. Brito** Detecting spatial randomness: A stat-geometrical alternative	**L.J. Drew, D. Sutphin and J.H. Schuenemeyer** Geology and medicine - Recovery and use of a large set of chemical data for soil and plant samples collected in the 1960s and the 1970s
11.20	**S. Goria, M. Armstrong and A. Galli** Using a Bayesian approach to incorporate new information when estimating resources	**A. Goshu and H. Omre** Stochastic approach for better prediction of aquifer parameters	**K.G. van den Boogaart** Analysis of variance for directions and axes	**P. Hellä, P. Saksa, A. Karanko, H. Ahokas, J. Nummela and J. Palmén** Statistical analysis of the bedrock properties to determine the boundary zone of the structures in a bedrock model
11.40	**R. Froidevaux** Incorporating uncertainties in hydrocarbon volumetric estimates: How far can we go?	**E. Savelieva, M. Kanevski, V. Timo-nin, A. Pozdnukhov, C. Murray, T. Scheibe, Y. Xie, P. Thorne, C. Cole** Uncertainty in the hydrogeologic structure modeling	**K. Ardalan, E. Grafarend** Ellipsoidal harmonic gravity disturbances: regional, continental, global maps of the vertical derivative of the incremental gravity potential	**M. R□dulescu and V. Chifu** Application of artificial neural networks for lithological evaluation - Case study: The Petro□ani Basin, Romania
12.00	**P. Biver, C. Bacquet** Efficient techniques to include uncertainties on global parameters in a geostatistical procedure.	**l. Sekkouri, D. Ouazar** (ESGWM) An expert system for data preparation for groundwater modelling	**G. Finn, A. Ardalan et al.** Ellipsoidal Harmonic Vertical Deflections: Regional, Continental, Global Maps of the Horizontal Derivative of the Incremental Gravity Potential	**C. Pomerol, V. Rohrlich and J. Tourenq** Interpretation of the provenance of heavy minerals using correspondence analysis and geostatistics
12.20	**K.-J. Röhlig and B. Pöltl** Use of geostatistical methods for the propagation of uncertainty in safety assessments for radioactive waste repositories	**E. Spyridonos, I. Fountoulis, E. Andreadakis, D. Mariolakos and E. Manutsoglu** Using integrated 3D geological modelling for planning artificial recharge of karstic groundwater. Case study in the Enipefs River Basin, Thessaly, Greece	**E. Grafarend, A. Ardalan** Gravity ellipsoidal versus potential ellipsoidal geoid: case studies of regional geoid	**G. Papatheodorou, C. Mitsis et al.** A multivariate statistical approach to the investigation of pockmarks growth and activity. An example from a pockmark field in the Gulf of Patras (W. Greece).
12.40	**O.P. Lødøen and H. Omre** Bias-correction in production forecasts and history matching	**J.E. Capilla** A mixed Lagrangian-Eulerian approach for the coupled inversion of the flow and mass transport equations in fractured media	**H. Schaeben and K.G. van den Boogaart** Rendering of random rotations and their probability density function	**G. Mateu-Figueras, V. Pawlowsky-Glahn and J.A. Martín-Fernández** Normal in $\square^+$ vs lognormal in $\square$

MONDAY, 16th September 2002 – PS2

Time	Session B Location: SR 05	Session K Location: SR 51	Session S Location: SR 49	Session E Location: Audi Max
14.00	**U. Leopold, G. Heuvelink and A. Tiktak** Scale issues in statistical validation of an environmental model chain	**S. Gadenz, M. Latini, L. Martinelli, F. Mori, J. Mugnaini and E.D. Regueira** GIS and 3D models of Northern Marche Region (Central Appennine - Italy). Distribution over the internet.	**K. Labus** Simulation of salty waters migration towards a therapeutic deposit - A case study	**C. Hervada-Sala, E. Jarauta-Bragulat and Á.M. Diblasi** Adapted Ward´s clustering method: Generalisation to several variables using the Fast Fourier Transform
14.20	**M. Murphy, L.M. Bloom and U.A. Mueller** Geostatistical optimisation of mineral resource sampling costs for a Western Australian nickel-deposit	**C. Dyt, C. Griffiths et al.** Recent Innovations in Sedsim - Modelling carbonate production using Fuzzy Logic and it's Interaction with a Hydrodynamic Siliciclastic Transport model.	**R. Czéh, J. Kovács et al.** Application of dynamic factor analysis for groundwater level changes of Danube-Tisza Interfluve	**J.J. Egozcue, J.L. Días-Barrero and M.I. Ortego** A bivariate normality test adaptive to the sample
14.40	**J.-H. Schuenemeyer, M.R. Karlinger and L.J. Drew** The effects of declustering on ground-water estimation	**R. Kouda and Y. Murakami** Subsurface 3D solid modeling for areas of earthquake active faults, active volcanoes, and a hyper-scale subsurface construction of neutrino detectors	**S. Semenov, G. Batrak** Kriging as a method for hydro-geological networks optimization	**W. Brown, A. Baddeley,T. Gedeon and D. Groves** Bivariate J-function and other graphical statistical methods help select the best predictor variables as inputs for a neural network method of mineral prospectivity mapping
15.00	**R. Kerry and M.A. Oliver** A comparison of kriged predictions using average variograms of soil properties and standardized average variograms of ancillary data	**J. van Wees, R. Verssepput et al.** Shared Earth System Models for the Dutch Subsurface	**B. Namys□owska-Wilczy□ska and J. Pyra** Integration of data from soil and underground waters monitoring grids by kriging with external drift	**N. Djarfour, K. Baddari et al.** Tomographic Velocity Images by Artificial Neural Networks
15.20	**A. Hinterding and U. Streit** Automatic model selection for spatial interpolation	**Y. Murakami and R. Kouda** Three dimensional viewer of underground geological structure	**J. Kovács, L. Márkus and G. Halupka** Measuring contamination-vulnerability of aquifers by dynamic factor analysis	**S. Hashemi, A. Zamani** Application of principal component analysis (PCA) in seismic zonings of Iran: A tentative approach
15.40	**J.J. Egozcue, M. El-Ghaidouni and V. Pawlowsky-Glahn** A kernel type estimator of the 2D-multivariate variogram	~~**A. Masoud, V. Raghavan et al.** DEM generation based on SAR Interferometry for Kagoshima area, Kuyshu, Japan~~ (cancelled)	**P. Szabó, J. Kovács et al.** Time series analysis of groundwater levels in the Danube-Tisza Interfluve	**Y.G. Yang, Y. Qin and H.Q. Tan** Random dynamic combined model and its application on the coalbed methane output forecasting

MONDAY, 16th September 2002

Time	Poster (P) and software (S) presentation	Type
16.00	**Plenary poster introduction**	
16.30	**Poster and software presentation**	
B	**L. Braga, C. Almeida and C. Bettini** Using non-linear regression for inference of semivariograms affected by change of support - An exploratory study of an exponential family	**P**
B	**E. Henry and D. Marcotte** Assessing recoverable reserve uncertainty and economical impact of a sublevel caving mine block	**P**
B	**A. Pasculli and N. Sciarra** A 2D mathematical and statistical modelling of soils structures	**P**
B	**L. Sánchez and J. Molina** Application of the geostatistics to evaluation of geologic risks scenaries	**P**
E	**A. Aiuppa, C. Federico, S. Gurrieri and M. Valenza** LINE FINDER - A computer code to find the most probable tectonic direction from soil gas distribution	**P**
E	**A. Chetyrbotsky** Plotting aggregated indices for revealing the geochemical specialization of Sikhote Alin and Koryak of the Kamchatka region	**P**
E	**F. Felletti** Relationship between bed-thickness distribution and corresponding bed volumes within a well-exposed confined turbidite system	**P**
E	**A. Grosso, M. Pilia, G. Ramazzo and A. Cristini** Multivaried analysis of contaminants in underwater beach sediments from the Oristano Gulf (Sardinia Central Eastern - Italy).	**P**
E	**O.K. Mironov** Optimal estimations for compiling synthetic maps	**P**
E	**N. Shafranskaya, N. Zhukov** Computer prognosis of ore desposits by method of filtration of different geologic information	**P**
E	**F. Usmanov** Problems of statistical metallogeny	**P**
E	**K. Voudouris** Time series analysis using ARIMA models of the groundwater table in Patras industrial area aquifer system (NW Peloponnese, Greece)	**P**
	Continuation →	

MONDAY, 16th September 2002

Time	Poster (P) and software (S) presentation	Type
16.00	**Plenary poster introduction**	
16.30	**Poster and software presentation**	
K	**A. Brenning, T. Bolch and H. Schröder** The GeoVis project: An online training course on visualization and digital terrain modeling in the geosciences	**P**
K	**P. Gôni** A geological model for the southern Altiplano at 21° S, Bolivia, using GIS and remote sensing techniques	**P**
K	**T. Gopinath, H. Sarmento** Modelling, mining and variographic structure of the continental bentonite deposits of the Boa Vista region, Praiba state, northeast Brazil	**P**
K	**B. Mali** Consequences and perspectives relating to internet application in cartography	**P**
K	**S. Masumoto, V. Raghavan, T. Nemoto and K. Shiono** Three dimensional geologic modeling and visualization using GRASS GIS	**P**
K	**T. Nemoto, S. Masumoto, V. Raghavan, T. Fujita and K. Shiono** Quantitative expression of relationship between topographic surface and bedding plane	**P**
K	**S. Walter, W. Skala** Modelling of the Hohentauern Magnesite Deposit	**P**
K	**G. Yonezawa, K. Shiono and S. Masumoto** Logical model of faulted geologic structures	**P**
H	**T. Shoji** Stereographic projection and variograms calculation by MS-Excel/VBA	**P**
S	**T. Gopinath, J. Morais et al.** Fracture analysis in Precambrian metamorphic formations and their hydrogeological properties	**P**

TUESDAY, 17th September 2002 – PS3

Time	Session Q Location: SR 05	Session R Location: SR 49	Session O Location: Audi Max	Session G Location: SR 51
8.30	**W. Shen** Study of fractal methods and its application in geology	**P. Lucio, E. Bodevan et al.** Spatial appproach for grain-seize trends based on directional random predictors	**J.H. Doveton and D.F. Merriam** Environmental and paleogeographic implications of subsurface spectral gamma-ray signatures of Pennsylvanian (Upper Carboniferous) black shales in the Midcontinent (USA)	**J. Aitchison, C. Barceló–Vidal, J.J. Ecozcue, V. Pawlowsky-Glahn** A concise guide to the algebraic-geometric structure of the simplex, the sample space for compositional data analysis
8.50	**Q. Cheng** A new technique for quantifying anisotropic scale invariance and for decomposition of mixing patterns	**J.P.M. Syvitski, R.D. Hilberman and S.D. Peckham** Sediment flux to the coastal zone: Predictions for the Navy	**J. Doveton, D. Merriam** Upper carboniferous black shales in the Midcontinent (USA): Their spactral gamma-ray signatures in the subsurface	**S. Rehder and U. Zier** Some remarks about transformations
9.10	**Q. Cheng and S. Zhang** Conditional multifractal measure and moment multifractal modelling with edge effect correction	**D. Tetzlaff** Modeling coastal sedimentation through geologic time	**T. Kumke, N. Hultzsch, A. Schoonderwaldt and U. Kienel** Spatial variability of lake sediment compositions - A case study from Lake Lama, Central Siberia	**G. Weltje** Sampling scale and compositional heterogeneity of sands
9.30	**L. Telesca, V. Lapenna et al.** Fractal structures in time-occurrence sequences of seismic events	**P.S. Lucio, E.C. Bodevan and H. Dupont** Sediment transport paths in the Westernschelde: One-dimensional alternatives to determine sediment trend	**H. Mayer, U.C. Herzfeld and G.K.C. Clarke** Analysis of deformation types in fast-moving glaciers	**J. Daunis-i-Estadella, J.J. Egozcue and V. Pawlowsky-Glahn** Least squares regression in the simplex
9.50		**G. Shapiro, T. Akivis** Fine sediment transport by coastal jets: Role of Earth rotation	**U.C. Herzfeld** Higher-order vario functions for geostatistical classification of snow and ice surfaces	**J. Aitchison, C. Barceló-Vidal** Compositional processes: A statistical search for understanding
10.10		**J. Elken, U. Raudsepp and T. Soomere** On the current- and wave-induced sediment redistribution patterns in the Gulf of Riga	**M.E. Nitsche** Are the stabilizing and destabilizing influences of the planetary gravitational field on the structural formation of complex systems real? - Triggering of earthquakes -	**H. von Eynatten, C. Barceló-Vidal and V. Pawlowsky-Glahn** Modelling Changes in Sediment Composition

TUESDAY, 17th September 2002 – PS4

Time	Session K Location: Audi Max	Session H Location: SR 51	Session Q Location: SR 05	Session R Location: SR 49
12.00	**R. Marschallinger and G. Furtmüller** Geological and geotechnical data: Applied solid modelling	**R. Heilbronner, K.G. van den Boogaart and H. Schaeben** Comparison of coarse- and fine-grained quartz textures using the pole density index (PDI)	**L. Márkus and J. Kovács** Modelling water capacity of spring: A multifractal approach	**T. Neumann** A three dimensional ecosytem model of the Baltic Sea - application to decadal time scales
12.20	**D. Ledez** Euclidean distance mapping: Geological applications	**J. Cai, E. Grafarend** The statistical inference of eigenspace components of a symmetric random tensor of type strain rate	**B. Sim, F. Agterberg** Modelling the Distribution of Gold Deposits in the Superior Province using Multifractal Methods	**B. Bobertz, C. Kuhrts et al.** Parametrization of sediment properties for the sediment transport module of the Warnemünde Baltic Sea Ocean Model ' method and first results.
12.40	**L. Souche - Gocad Research group** Integrating complex fault network in horizon and reservoir modeling : A 3D parameterized space based approach.		**Z. Unger** Fracture network investigation with elements from fractal geometry	**M. Meyer, J. Harff and R. Lampe** Modeling coast line changes of the Baltic Sea - Past and future

TUESDAY, 17th September 2002 – PS5

Time	Session I Location: SR 53	Session D Location: SR 05	Session O Location: Audi Max	Session G Location: SR 51
15.00	**B.M. Nielsen and T.M. Rasmussen** Ongoing assessment of mineral resource potential models for the palaeoproterozoic orogens in central West Greenland through data integration methods	**W. zu Castell, U. Weller, M. Zipprich, M. Sommer and M. Wehrhan** Kriging considered from the deterministic point of view	**F. Agterberg** Construction of numerical geological time scales	**A. Buccianti, G. Montegrossi, F. Tassi and O. Vaselli** Log-contrast analysis of volcanic fluid composition: A way to check equilibrium conditions?
15.20	**O. Trapeznikova** GIS and remote sensing techniques for space-time modeling of ecosystems of the east of Russian plain	**P. Marinkovic, E. Grafarend** Space Gravity Spectroscopy: homogeneous and isotropic three-dimensional functions (Taylor-Karman structure, spatial autoregressive processes)	**M. Spiller, R. Ababou, T. Becker, A. Fadili and J. Köngeter** Mass transport with heterogeneous diffusion: Interpolation schemes for random walks	**R. Tolosana-Delgado, R. Palomera-Roman, D. Gimeno-Torrente, V. Pawlowsky-Glahn and S. Thió-Henestrosa** A first approach to classification of basalts using trace elements
15.40	**A. Zahedi, N. Lust and M. van Meirvenne** Investigation on the spatial relationship between geological depth and materials in two different forest types	**K.G. van den Boogaart and M. Drobniewski** Kriging the strain tensor based on geodetic, geotechnic and geological observations	**D. Gill, A. Sen and C.G.St.C. Kendall** Numerical simulation of the deposition and stratigraphic relations of the Silurian evaporite-encased pinnacle reefs of northern Michigan	**G. Bohling, J. Doveton and R. Olea** Interpolation of Petrophysically-Derived Compositional Profiles for Cross-Section Generation
16.00	**J. Jesus, T. Panagopoulos and J. Beltrão** Application of geostatistics and GIS to experiments in irrigation	**B. Atfeh and J. Wendebourg** Modeling petroleum migration using multi-phase stream line simulation	**H. Thiergärtner** The Ruedersdorf limestone deposit near Berlin and the mathematical reserve estimation	**C. Barceló-Vidal and J.A. Martín-Fernández** Differential calculus on the simplex
16.20	**G. Dubois and M. Saisana** Optimizing spatial declustering weights: Comparison of methods	**L. Bertino, H. Wackernagel, G. Evensen and H. von Storch** Using data assimilation and geostatistics for variables with non-linear dynamics: Application to an estuarine ecosystem	**M. Thibaut and T. Cornu** 3D kinematic and reversible deformation in basin modeling	**S. Thió-Henestrosa, C. Baceló-Vidal, J.A. Martín-Fernández and V. Pawlowsky-Glahn** CoDaPack. A userfriendly freeware
16.40	**M.V. Zuccolini, G. Ottonello, L. Marini and F. Cipolli** G^4: An integrated system for the management, analysis, and visualization of the geochemical data stored in the National Geochemical Archive of Italy	**A. Chetyrbotsky, E. Chetyrbotsky** Estimate of soil volumes of different rock categories by nonparametric regression methods		**E. Jarauta-Bragulat, C. Hervada-Sala and A. Diblasi** An experimental comparison of cokriging of regionalized compositional data using four different methods. Case study: Bauxites in Hungary

TUESDAY, 17th September 2002 – PS6

Time	Session L Location: SR 53	Session N Location: SR 51	Session C Location: Audi Max	Session T Location: SR 05
17.30	**T. Bode, A.B. Cremers, U. Radetzki and S. Shumilov** COBIDS: A component-based framework for the integration of geo-applications in a distributed GI-infrastructure	**G.M. O'Brien, F.A. D'Agnese, A.K. Turner and K.H. Nasser** The Role of geoinformatics in the geoscience-business process	**J. Sénégas** Spatial simulations with Markov chains	**J.C. Davis and G.C. Ohlmacher** Landslide hazard prediction using generalized logistic regression
17.50	**T. Jerome, M. Ford** Structural geology tools with 3D CAD tools for geometrical modell ing using field data	**I. Jackson** Why standards matter. The experience of converting 167 years of geological mapping into quality assured digital services for non-traditional clients.	**G. Tavares, H. Lopes, S. Pesco and C.A. Poletto** Petbool: A software for stochastic modeling of geological objects	**C. Chung, A. Fabbri** Landslide risk analysis from the prediction of future occurrences based on geomorphology-related
18.10	**F. Lepage** Triangle and tetrahedral meshes for geological models	**J. Matti, D. Soller et al.** Science Language for Digital Geologic-map Databases: A North American Perspective	**T. Tran, U.A. Mueller and L.M. Bloom** Conditional simulation via Haar wavelets: A comparison	**U. Maurer and D. Balzer** A new approach towards selection and rating of regions, areas or sites for disposal of hazardous wastes in Germany by using GIS
18.30	**V. Mikhailov and B.R. Sirazetdinov** Variational methods application for geological modeling	**M. Pennanen and C. Kortman** Semantic web - towards more intelligent geoscience web applications	**J. Gómez-Hernández, E. Cassiraga et al.** Conditional simulation under linear constraints. Gaussian vs. non-Gaussian.	**L. Disperati, E. Guastaldi and L. Carmignani** Landslide mapping and hazard prediction in the Pergola area (Marche, Italy)
18.50	**M. Aurnhammer and K. Tönnies** Image processing algorithm for matching horizons across faults in seismic data	**K. Wakita, J. Bandibas, R. Kouda and Y. Murakami** Formulation of interoperable common codes for various geological expressions among different languages, cultures and standards	**M. Le Ravalec-Dupin** Conditioning truncated Gaussian realizations to static data	**S. Sterlacchini, M. De Amicis et al.** GIS and groundwater modelling for the determination of landslide failure probability: the Oltrepo Pavese case study
19.10	**H.-J. Götze and S. Schmidt** Geophysical 3D-modelling using GIS-functions			**H. Thiergärtner** Strategy and algorithms for the determination of informative parameter profiles at multivariate areal predictions

TUESDAY, 17th September 2002

Time	Poster (P) and software (S) presentation	Type
10.30	**Plenary poster introduction**	
11.00	**Poster and software presentation**	
C	**M. Cozzi, F. Roncarolo, P. Balossino, R. Bersezio, F. Felletti and M. Rossi** Combining facies analysis, log interpretation and geostatistical simulation to characterise heterogeneity of a turbiditic reservoir	**P**
C	**M. Kumral** Enhancements on reproduction of spatial variability with geostatistical simulated annealing	**P**
D	**A. Baião, T. Albuquerque, A.J. Sousa and H.G. Pereira** VarimaW software	**S**
F	**M. Labus** Computer image analysis in clastic rocks porosity measurement	**P**
F	**A. Michaelichenko** The application of the 3D dynamic projections in coordinates petrochemical parameters	**P**
G	**A. Buccianti and S. Monechi** Bi-plot analysis to discover relationships among species in micropaleontological quantitative data	**P**
G	**R. Tolosana-Delgado, R. Palomera-Roman, D. Gimeno-Torrente, V. Pawlowsky-Glahn and S. Thió-Henestrosa** A first approach to classification of basalts using trace elements	**P**
I	**D. Kawabata** Geomorphic features measurement of the landslide area based on GIS analysis	**P**
I	**J. Tamás and C. Lénárt** Using geoinformatics in regional environmental modelling	**P**
I	**Z.W. Yu and H.Q. Tan** Regionalized interpolation - A new approach to surface map reconstruction	**P**
O	**H.A.F. Chaves, L.R. Tupinambá, E.R. Pombo and E. Pereira** Sedimentary cycles in the Cenomanian Turonian transition in the Sergipe Basin, Brazil	**P**
O	**A. Chetyrbotsky** Geochemical mineralization process as dynamics of "resource-consumer"-type system	**P**
O	**T.A. Jelmert** Bi-linear pressure signatures of horizontal wells	**P**
O	**S. Ki, J. Choe and M. Jang** Fractal conditional simulation with irregularly spaced data	**P**
	Continuation →	

TUESDAY, 17th September 2002

Time	Poster (P) and software (S) presentation	Type
10.30	**Plenary poster introduction**	
11.00	**Poster and software presentation**	
O	**V. Marchenko** TU 100 – Anniversary of application. Mathematical methods by russian geologists	**P**
O	**U.A. Mueller, P. Goovaerts and A.G. Mueller** Geostatistical modelling of rock-type: A comparison of the performance of classification schemes based on data from the Big Bell gold deposit, Western Australia	**P**
O	**Y. Noumi, K. Shiono, S. Masumoto and V. Raghavan** Generation of DEM from the topographic maps - Utilization of inter-contour height information -	**P**
O	**R. Pattisina and E. Verrecchia** A cellular automata and DLA model for growth surface simulation: Application to stromatolites	**P**
O	**P. Scheck** New Scales in Modeled Geology - Geomorphologie, Sediment Budget, Mass Balances, Loading History	**P & S**
O	**K. Shiono** Mathematical basis for classification of sedimentary layers under the law of superposition	**P**
O	**A. Weller** Development of an Automated Microscopy System for the Identification and Quantification of Sedimentary Organic Matter and Dinoflagellate Cysts in Palynological Preparations	**P**
Q	**A.G. Ediberidze, A.Sh. Gugushvili, V.K. Sesadze, I.S. Kucia, P.D. Jokhadze and D.G. Gigauri** Earthquake cycles and fractal time series	**P**
Q	**A.G. Ediberidze, A.Sh. Gugushvili, V.K. Sesadze, I.S. Kucia, P.D. Jokhadze and D.G. Gigauri** Prognosis of seismic danger according to the geological and geophysical date	**P**
Q	**W. Shen** Assessment of gold ore resources potential in the eastern part of Shandong, China by the “p100/q100” law	**P**

WEDNESDAY, 18th September 2002 – PS7

Time	Session C Location: Audi Max	Session M Location: SR 05	Session R Location: SR 49	Session F Location: SR 51
8.30	**J. Almeida, M. Lopes and J. Santos** Equivalent permeability derived from a fracturated system	**Y.K. Yeon, J.G. Han and K.H. Chi** Implementation of field geological information system (FIELDPLUS)	**B.J. Haupt and D. Seidov** Sea surface salinity as a key to the global ocean conveyor	**G.F. Bonham-Carter and T.J. Katsube** Solving nonlinear equations for a model of electrical resistance in layered mineralized rocks
8.50	**T.R. Fisher and A.K. Turner** Application of hybrid 3D modelling methods to prediction of ore grades in stratabound deposits	**D. Collins, J. Ross** Geologic map data models - standards and variants - a comparison of the North American Data Model and the Kansas data model variant.	**B. Birnir, T. Smith et al.** The Modeling and Analysis of Scaling and Stochasticity in Fluvial Landscapes	**A. Schumann** Hidden Markov model for lithological well log classification
9.10	**J.E. Capilla, J. Rodrigo, J.J. Gómez-Hernández and C. Llopis** Three dimensional stochastic modeling of conductivity fields in a fractured rock medium	**V.N. Mikhailov and E. Ermolin** The electronic atlas - A new level of integration of the spatial data in GIS	**Z. Khan** Paleo hyodrological reconstruction of ancient river system in Himalayan foredeep, northern up – A nummerical approach	**P. Lucio, M. Mendes** Modeling petrophysical parameters by indirect seismic spatial information updating
9.30	**M. Benito García-Morales and H. Beucher** Inference of the Boolean model on a non stationary case	**V. Naumova, W. Nokleberg et al.** Geographic Information Systems Compilation of Mineral Resources, Metallogenenic Belts, and Geodynamic Maps of Northeast Asia	**R. Prissang** 3D Variography as a tool to recognise transport processes and associated paleo-directions in limestones and limestone-hosted deposits	**N. Nishiwaki** Review and revision of the systematics in sedimentary petrology with reference to statistical and mathematical analyses of sedimentary data
9.50	**C.A. Poletto, L. Menezes, F.P. Lima-Filho, G. Tavares, H. Lopes and S. Pesco** Fluvial outcrops parametrization applied to object based geological modeling for reservoirs of the Potiguar Basin - Brazil	**R. Salvini, L. Disperati and L. Carmignani** Deforestation assessment and predictive modelling in the Pantanal wetlands (Mato Grosso, Brazil)	**R. Ondrak and R. di Primio** Reconstruction of the burial and temperature histories of 5 ODP/DSDP wells in the Nankai Trough via basin modeling	**U. Zier, S. Rehder et al.** Statistical Properties of Geochemical Processes
10.10				**A. Cappelli** The use of multivariate statistics in the commercial characterization of ornamental stones: The "Perlato" Coreno study case (Latium, Italy)

WEDNESDAY, 18th September 2002 – PS8 & PS9

Time	Session C Location: Audi Max	Session L Location: SR 53	Session T Location: SR 05	Session N Location: SR 51
12.00	**H. Saito, P. Goovaerts and S.A. McKenna** Combining logistic regression with kriging for mapping the risk of occurrence of unexploded ordnance (UXO)	**A.V. Antsiferov and A.A. Glukhov** Geographical information system GeoMark	**C. Chung** Uncertainties of input data in spatial prediction models: Applications to ecological studies and landslide hazard mapping	**C. Smyth** Standards for decribing mineral deposits: Language and logic requirements
12.20	**S. Bonduà, R. Bruno and F. Muge** Geostatistical simulation of orna-mental stone images: Results analy-sis by mathematical morphology	**G. Caumon, C. Sword and J.-L. Mallet** Interactive editing of sealed geological 3D models	**A. Smolka** The principle of risk partnership and the role of insurance in risk mitigation	**B. Brodaric, E. Boisvert and A. Patera** A set-theoretic technique and software for managing multiple-classification in geological hierarchies
12.40	**A.H.M. Silva, R.B. Mello and M.F. O'Brien** The use of sequential Gaussian simula-tion for mineral resource classi-fication, a tool to assess grade confidences	**D. Hekmatzada, J. Meseth and R. Klein** Non-photorealistic rendering of complex 3D models on mobile devices	**W. Spataro, R. Rongo et al.** Computer simulation of lava flows: A real case application on the july 2001 Etnean eruption for risk assesment	**P. Ryghaug** From bedrock UML-modelling and database design to internet applications using standards.

Time	Session P Location: Audi Max	Session L Location: SR 53	Session D Location: SR 05	Session N Location: SR 51
14.00	**I. Tchijova, M. Konstantinov and R. Poliakov** Computer-aided system for selection of analogs of the world gold deposits	**G. Exadaktylos, E. Manutsoglu, G. Saratsis, E. Baradakis, G. Kalogeropoulos, E. Spyridonos and J. Mastoris** 3D geological modelling of Kamari quarry (Greece) for exploration planning and quality control	**G. Jost, G.B.M. Heuvelink and V. Zlatic** Comparing the space-time distribution of soil water storage for two forest ecosystems using spatio-temporal kriging	**J. Broome, J. Rupert et al.** Establishing Common Ground: Canadian Geoscience Knowledge Network Standards
14.20	**N. Gorelikova, N. Bortnikov and I. Tchijova** Geochemical comparison models for tin deposits in different geodynamic environments	**G. Timcak, L. Vizi et al.** Geostatistical analysis of the Kisovce-Svabovce Mn deposit (Slovakia)	**S. Hashemi, A. Zamani** Application of multivariate statistical methods in tectonic regionalization of Iran	**E. Grunsky, J. Glynn** XML Initiatives in the Canadian Geoscience Knowledge Network
14.40	**V.B. Svalova** Mechanical-mathematical modelling for the earth´s deep and surface structures interaction	**G. Gang** Establish a spatial reference model for modeling and simulation – Fundamentals and principles	**T. Albuquerque, A. Baião, H.G. Pereira, A.J. Sousa and J. Taboada** Estimation of the local recovery of a slate massif by merging drill hole and quarry face information	**P. Davenport, É. Boisvert et al.** Building a distributed geological map database of Canada for the Internet

WEDNESDAY, 18th September 2002 – PS10

Time	Session N Location: SR 51	Session L Location: SR 53	Session P Location: Audi Max	Session T Location: SR 05
17.00	**J. Jellema and R.J. van Leeuwen** Using XML in advanced geological information systems: A case of cross-border UK-NL stratigraphy explored	**O. Spirina, O. Spirina et al.** Comparison of different methods of computer based evaluations of coal deposits – on the example of a part of the Donets Basin	**T. Volkova** System researches at the forecast ore-grade mineralization	**D. Geneletti, D. Alkema, E. Bertoletti, F. Comelli, M. De Amicis, R. Guarino, S. Guerrato, C. Michelotti, S. Sterlacchini, A. Zanchi and A. Zucca** A multi-scale approach to assess the impact of roads on biodiversity and geomorphology
17.20	**A. Cappelli and L. Morandini** The importance of integrating metadata into GIS: The case study of the geographic information system of the city of Khouribga (Morocco).	**A. Omelchenko, M. Tirkel et al.** Models of natural and technogenetic objects in geological GIS for the level of coal-minging company	**D. Zhou** Thermal and Rheological Structure of Lithosphere under the Mountain Belt and Foreland Basin of Taiwan - A Preliminary Study	**M. Kanevski, A. Pozdnukhov, S. McKenna, L. Bolshov and E. Savelieva** Transductive decision-oriented mapping of environmental data
17.40	**L.C. Struik, M.B. Quat, P.H. Davenport and A.V. Okulitch** Multi-hierarchical rock classification for use with thematic computer-based query systems	**F. Salvi, S. Sterlacchini and A. Zanchi** 3D Modelling with Gocad of complex geological structures in the frontal part of the Southern Alps	**N. Zhukov** The Windows -Application «An Estimation Of A Reserve Of Gas Field By A Method Of Simulation Of Random Tests»	**L. Recatalá, F. Morcillo, A.G. Fabbri and J. Sánchez** Desertification indicators for improving the decision-making process
18.00	**K. Asch** Developing a simple geological map data model (for the whole of Europe)	**S. Schmitz, A. Zipf and Hidir Aras** Open GML-based Mobile Geodata-Handling for PDAs	**V. Filatova** Tectonic processes dynamics under earth's crust formation of the N-E part of the Baltic Shield (mathematical simulation)	**T.N. Singh, A. Pandey and S. Puri** Development of new software for prediction of safe charge
18.20		**E. Laine** 3D structural modelling of gold deposits relative to tectonic history at Kutemajärvi and Pampalo gold deposits in Finland	**V. Karzhavin** Crystallization velocity of the magmatic melts at the intrusion reef formation	**K. Munier and H. Burger** Spatial analysis of thermal infrared satellite data in an urban environment
18.40		**I. Mariolakos, E. Spyridonos, I. Fountoulis, E. Andreadakis, N. Minos** Monitoring and modeling the spatio-temporal variation of air temperature and relative humidity in ancient Ma-cedonian graves in Vergina, Greece	**G. Mihnea** Contributions to the determination of resistivity of rocks.Consequences of Weber-Lipchitz formulas	**A. Victorov** Mathematical models of landscape patterns for geological interpretation of remote sensing data
19.00		**G. Nardi and A. Vietri** 3D GIS in the management of a three-dimensional geological model of Avellino (Southern Italy)		

WEDNESDAY, 18th September 2002

Time	Poster (P) and software (S) presentation	Type
10.30	**Plenary poster introduction**	
11.00	**Poster and software presentation**	
L	**O. Mironov, K. Fessel et al.** GIS technologies in the engineering geology and environmental studies	**P**
L	**O. Spirina** Overview of developments of graphic and geostatistic tools for the coal quality mapping in Donets basin	**P**
L	**A.V. Vesselovsky and K.G. Krasavin** Managing geoinformation resources on the basis of integrational programme means and GIS technology	**P**
L	**Y. Xiang, D. Liu and M. Zhang** Developing techniques and application for regional exploration data management and analysis system	**P**
L	**A. Thomsen, R. Ryabcev et al.** KVB-Donbas - a small system for the assessment of layered subsurface deposits. With application examples of the Ruhr (Germany) and Donets (Ukraine) hard coal deposits.(poster)	**P & S**
L	**G. Gang** Establish a spatial reference model for modeling and simulation – Design and Implement	**S**
M	**J. Belickas** The concept of universal geological data model: solution for integrated management of semantic and graphic data	**P**
M	**D. Collins, J. Ross** Geologic map data models - standards and variants - a comparison of the North American Data Model and the Kansas data model variant. (poster)	**P**
M	**E. Predescu, G. STANCALIE et al.** Estimation of the land surface temperature using satellite data over Romania	**P**
M	**V. Raghavan, S. Masumoto, M. Shibayama and K. Shiono** Implementing spatial data infrastructures using open source software tools	**P**
M	**V. Rapševi□ius and A. Juozapavi□ius** The stucturing of textual data for data mining in geology	**P**
N	**C. Beer, L. Jemelin et al.** Indexing and standardisation of symbols and linear elements for geological maps	**P**
	Continuation →	

WEDNESDAY, 18th September 2002

Time	Poster (P) and software (S) presentation	Type
10.30	**Plenary poster introduction**	
11.00	**Poster and software presentation**	
N	**M. Carter** A new Information System for the Geological Survey of Ireland	**P**
N	**K.H. Chi, Y.K. Teon, N.W. Park and K.W. Lee** Digital geologic infrastructure building program in Korea: The first year experiences	**P**
N	**H. Jong-Gyu, Y. Yeon-Kwang** Web Based Digital Geoscience Information System in Korea	**P**
N	**K.G. Krasavin** Forming information field of geosciences in the technological complex of a research institute	**P**
N	**A. Reyna, M. Alberto Sandoval et al.** The Geological Dictionary as tool for the convertion and manipulation of digital National Geological Information.	**P**
P	**I.A. Tchijova, V.S. Tikhonov and A.G. Gorelov** Mathematical model of placer-forming particles movement in water flows	**P**
T	**V. Alyohin, B. Voyevoda** New methods for study of ecologically dangerous zones of tectonic origin on urban terretories	**P**
T	**D. Geneletti** Spatial indicators and multicriteria analysis for ecological impact assessment of roads	**P**
T	**S. Marzorati, L. Luzi and M. De Amicis** Rock falls induced by earthquakes: A case study for the formulation of predictive rules for hazard zoning	**P**
T	**P. Mewis, U. Zanke** Simulation of the spreading of dumped dredged material in coastal waters	**P**
T	**G. Miliaresis** Segmentation and analysis of South Africa's continental escarpment from moderate resolution DEMs	**P**
T	**N.W. Park, K.H. Chi and C.J. Chung** Effects of uncertainties of boundaries in thematic maps for spatial prediction models in landslide hazard mapping	**P**
T	**M. Yoneda, S. Morisawa, T. Kiuchi and J. Otsuka** Search for optimal arrangement of sampling points in a survey of soil pollution under the noninformative condition	**P**

Map of the convention area

Meeting Point / Bus stop for the social program and the Rüdersdorf trip.

Convention Center
Free University of Berlin
Institute of Computer Science
Takustrasse 9
D-14195 Berlin, Germany

Dining room of the University