



MAGYAR FÖLDMÉRÉSI, TÉRKÉPÉSZETI és TÁVÉRZÉKELÉSI TÁRSASÁG  
HUNGARIAN SOCIETY of SURVEYING, MAPPING and REMOTE SENSING  
UNGARISCHE GESELLSCHAFT für VERMESSUNGSWESEN, KARTOGRAPHIE  
und FERNERKUNDUNG  
SOCIÉTÉ HONGROISE de GÉODÉSIE de CARTOGRAPHIE et de TÉLÉDETECTION

BUDAPEST II. FŐ u. 68. H-1371 Pf. 433.

Tel.: 36/1/201 8642

**Mr. Markku Villikka**

*Director*

International Federation of Surveyors

FIG Office

Lindevangs Allé 4

DK-2000 Frederiksberg

Denmark

NOMINATION LETTER for CHAIR ELECT of FIG COMMISSION 2 for 2004-2006, COMMISSION CHAIR for 2006-2010

**Dear Mr Villikka,**

The Hungarian Society of Surveying Mapping and Remote Sensing (MFTTT) has decided to nominate *Prof Béla Márkus* for the chair elect of the Commission 2 of FIG for 2004–2006 and in the same time the commission chair for 2006–2010.

*Prof Béla Márkus* is a land surveyor, M.Sc., Ph.D., professor of Geoinformatics, director of the College of Geoinformatics, University of West Hungary. He has 30 years teaching experience in surveying, 15 years in teaching GIS and 10 years in development and organization of open, distance learning professional courses for land administration. He has over seventy published papers on various aspects of using GIS, actively involved in many national and international academic programmes, chairman of the Hungarian UNIGIS Course Board, council member of Association of GI Laboratories in Europe (AGILE), member of the Executive Board of EuroPACE distance learning consortium.

*Prof Márkus* was the Hungarian delegate to Commission 3 from 1991 till 1999 and delegate to Commission 2 from 1999 till 2003. Since 2002 he has been the vice chair of the Commission 3 and the chairman of working group 2.4 “Knowledge Transfer in Spatial Information Management”. Currently he is the elected chairman of the FIG National Committee at the MFTTT for the period of 2003–2007. Since 2002 he has been member of the FIG Board of Directors.

The candidate was very active during the last decade. He organised the Commission 3 Annual meeting in Budapest, Hungary in 1999. Since 1996 he has participated regularly in FIG Working Weeks, conferences, Commission 2 and 3 Annual meetings, presenting several papers and representing our professional society (MFTTT) as a national delegate.

*Prof Márkus* is personally and professionally appropriate to lead the work of Commission 2. The Hungarian Society (MFTTT) gives full professional and financial support to lead Commission 2 in case of his final appointment of chair elect by the General Assembly.

Sincerely yours

*Géza Apagyí*  
President

PROF DR BÉLA MÁRKUS  
CURRICULUM VITAE  
2003

Bela Markus is a land surveyor, M.Sc., Ph.D., professor of Geoinformatics, and director of the College of Geoinformatics, University of West Hungary. He has 30 years teaching experience in surveying, 15 years in teaching GIS and 10 years in development and organization of open, distance learning professional courses for land administration.

Prof. Markus has over sixty published papers on various aspects of using GIS. He is actively involved in many national and international academic programmes, is chairman of the Hungarian UNIGIS Course Board, chairman of the National Committee of Association of Hungarian Surveyors and Cartographers, chairman of the Agricultural Experts Committee Surveying Session at the Ministry of Agriculture.

He is chairing FIG WG2.4 (Knowledge Transfer in SIM) and the Hungarian Scientific Committee of COST G9 "Modelling Real Property Transactions". Prof. Markus is Council member of Association of GI Laboratories in Europe (AGILE) and also the Executive Committee of EUROPACE (Leuven, Belgium). In 2003-2004 he is advising Central European land Knowledge Center (Budapest, Hungary) as an International Expert on Knowledge Transfer.

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PERSONAL DATA

Date of Birth: 5th July 1947  
Place of Birth: Etyek, Hungary  
Nationality: Hungarian  
Profession: professor  
Position: head of college  
Marital Status: married

Knowledge of languages:

Hungarian (mother tongue)  
English (speaking: good, reading: good)  
German (speaking: poor, reading: fair)  
Russian (speaking: poor, reading: poor)

Main activities:

GIS education development using distance learning techniques  
Error modelling and handling in GIS  
Decision support by GIS

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PERMANENT ADDRESS: H-2051 Biatorbágy, Zsigmond király u. 8. Hungary  
Tel: (36) 23-310-335

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OFFICE ADDRESS: University of West Hungary, College of Geoinformatics  
H-8002 Székesfehérvár P.O.Box 52 Pirosalma u. 1-3. Hungary  
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EDUCATION AND TRAINING

2001 certificate in quality management of distance education (EUROPACE)  
1997 Dr habil (University of Sopron), 21/1997  
1996 TEMPUS certificate in distance educational material development  
(European Training Foundation)  
1989 ARC/INFO Training (Redlands, California)  
1985 Candidate of Science, MTA, 11097/1986. (MIIGAiK, Moscow)  
Digital terrain modelling in Computer Aided Design (CAD)

- 1974 DrEng Surveying (TU Budapest) BME, 1616/1975.  
1971 MSc Civil Engineering (TU Budapest)  
1965 High School (Road Construction, Székesfehérvár)
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#### PROFESSION AND FUNCTIONS

- 2002 member of EUROPACE (European Distance Education Network) Executive Board  
2002 member of AGILE (Association of GI Laboratories in Europe) Council  
2002 chairman of FIG workgroup on Knowledge Transfer in Spatial Information Management  
2002 – 2003 External expert in the “Land Reform and Land Market Development in Ukraine, TEMPUS-TACIS Joint European Project  
2001 head of college (University of West Hungary)  
2001 visiting professor (University of Salzburg, Austria)  
1999 professor (University of Sopron), 331/1998  
1997 – 1999 head of GIS Development Centre at Research Institute of Surveying and Remote Sensing  
1995 head of UNIGIS board in Hungary  
1994 head Dept of Geoinformatics (University of Forestry, Sopron)  
1987 associate professor (TU Budapest)  
1981 research fellow ( Research Institute of Surveying and Remote Sensing)  
1977 senior lecturer (TU Budapest)  
1973 lecturer (TU Budapest)  
1977 research fellow (TU Budapest)
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#### PROJECT MANAGEMENT

- Project manager of “NODE – Networked Open Distance Education” SOCRATES – MINERVA project (2001-2003) co-ordinated by University of Salzburg, AT  
Project manager of “NetCampus – Improving ODL in a Network” SOCRATES – MINERVA project (2000-2002) co-ordinated by EUROPACE, BE  
Co-ordinator of “LIME – Land Information Management for Executives” LEONARDO Project (1999 - 2001)  
Project Co-ordinator of “SDiLA- Staff Development in Land Administration” TEMPUS PHARE Institution Building Project (1999 - 2001)  
Project Co-ordinator of “FISH – Land Information Services on Internet” OMFB IKTA Project (1998 - 99)  
Project Co-ordinator of “UNIPHORM – Introduction to OpenGIS” PHARE Project (1998 - 99)  
Project manager of PRONET/CCE “Multimedia Computer Based On-Line Training and Support Service for Professionals in Countries of Central Europe” – INCO COPERNICUS Project (1997 - 99) co-ordinated by ITC, Enschede, NL  
Project Co-ordinator of “Distance Learning in GIS” PHARE Project (1996 - 98)  
Project Co-ordinator of “Open Learning for Land Offices” TEMPUS Joint European Project (1995 - 98)  
Project Manager of NCGIA Core Curriculum - Hungarian adaptation project (from 1992 to 1994) involving 12 authors and many GIS experts from Hungarian and foreign universities and companies,  
Digital Terrain Modelling in Computer Aided Civil Engineering Design (from 1987 to 1990) sponsored by Ministry of Education  
Project Manager of Computer Aided Topographic Mapping project (from 1981 to 1985) and pilot project on data acquisition for the
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Hungarian Digital Elevation Model (1986) sponsored by FÖMI

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GIS EDUCATION AND TRAINING

- 30 year teaching experience,
  - Computer Programming
  - Surveying
  - Computer Applications in Surveying
- 20 year teaching experience,
  - Land Information Systems
  - Computer Aided Mapping
- 10 year teaching experience,
  - Introduction to Geographical Information Systems
  - Geographic Information Management
  - Spatial Operations
  - Spatial Thinking
- 1989 - 2002
  - National Cadastre course management
  - UNIGIS postgraduate GIS course management
  - NCGIA CC postgraduate course management
  - NCGIA CC - Teach the Teachers course management
    - 2x for Hungary
    - 1x for Eastern Europe
  - GIS course management:
    - first post-graduate GIS course in Hungary

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SELECTED PUBLICATIONS

1. Márkus, B. - Molnár, T.: Terrain description by cluster analysis, BME Newsletter, Bp., 1984/1.
2. Divényi, P. - Márkus, B.: Thematic Mapping of relief by computer, EURO-CARTO III, Graz, 1984.
3. Márkus, B.: Classification of DEM's points by local parallel processing, BME Newsletter, Bp., 1985/1.
4. Márkus, B.: Terrain analysis in consideration of surface curvature conditions, Per.Pol.Civil Engineering, Bp., 1986/1-2.
5. Márkus, B. - Molnár, T.: Catchment modelling by means Digital Terrain Model, Int.Conf. on Hydrological Processes in the Catchment, Cracow, 1986.
6. Márkus, B.: Alternate techniques for computer aided analysis of DEMs surface. EURO - CARTO VI, Brno, 1987.
7. Márkus, B. - Winkler, P.: Production of Digital Terrain Model on the base of online orthophoto techniques and automatic construction of slope category map. Int.Conf. on Soil Sciences, Budapest, 1988.
8. Kertész, Á. - Márkus, B.: A digital soil erosion model. Benelux Colloquium on Geomorphologic Processes, Amsterdam - Leuven - Luxembourg, 1988.
9. Márkus, B. - Békefi, E. - Horváth, I. - Molnár, T. - Siki, Z.: Microcomputer GIS in the education of CAD, 14th ICA World Conference, Bp. 1989.
10. Márkus, B. - Sárközy, F.: Geomorphologic and geological models and maps, EURO CARTO VIII, Palma de Mallorca, 1990.

11. Kertész, Á. - Márkus, B. - Mezősi, G.: Application of a microcomputer GIS for Environmental Assessment, EGIS'90, First European Conf. on GIS, Amsterdam, 1990.
12. Kertész, Á. - Márkus, B. GIS applications Geomorphology and in Geomorphological Mapping, Geol. Jahrbuch. Hannover, 1992. pp. 381-387.
13. Márkus, B.: Error management in Digital Elevation Modelling, Per. Pol. Civil Engineering, 1993/1.
14. Márkus, B.: Decision making using GIS, TEMPUS meeting, Delft, 1993.
15. Márkus, B.: Error modelling in GIS environment, TEMPUS meeting, Karlsruhe, 1993.
16. Márkus, B. - Prajczner, T.: GIS education in Hungary - Curriculum development and national survey, EGIS'94, Paris, 1994.
17. Márkus B.: An object-oriented archeological GIS for ANGKOR, Scientific Meeting on Endeavour Space Shuttle Radar Images, WMF-NASA-RAF, Princeton (USA), 1995.
18. Márkus, B.: GIS curriculum development and education in Hungary, The 1995 European GIS Yearbook, Ed. P. J. Shand - P. J. Ireland, NCC Blackwell and Blendheim Publications, Oxford, 1995, pp. 47-49.
19. Márkus, B.: NCGIA CC adaptation - results, effects, proposals, EASICC meeting, EFE, Sopron, 1995.
20. Márkus, B.: Spatial analysis, UniGIS Module 5, adaptation, Székesfehérvár, 1995.
21. Márkus, B.: Data quality, UniGIS Module 7, adaptation, Székesfehérvár, 1996.
22. Márkus, B.: GIS OPEN - Open GIS education in GIS, Proceedings of Third Joint European Conference and Exhibition, Vienna, 1997.
23. Márkus, B.: Decision Support and Error Handling GIS Environment, Habilitation presentation, University of Sopron, Sopron, 1997.
24. Márkus B.: Márkus, B.: Building a knowledge pool for land administration, UN ECE MOLA Meeting on Land Market, Budapest, 1998.
25. Márkus B.: Building WEB based Land Information Services in Hungary, AGILE '99 Conference on Geographic Information Science - User-friendly geographic information, Rome, Italy, 1999.
26. Márkus B.: CPD in Land Administration in Hungary, FIG Commission 3 seminar, Budapest, 1999.
27. Ed.: Márkus B.: Proceedings of FIG Commission 3 Annual meeting and seminar, Budapest, 1999. p. 176.
28. Márkus, B.: Service for Training GIS Professional Technical Personnel in Open Systems, PHARE Multi-Country programme in Distance Education Closing Conference, Budapest, 1999.
29. Márkus B.: GIS Education and Hungarian Spatial Data Infrastructure, 1st International Seminar on Cadastral System, Land Administration and Sustainable Development, 2000, Bogota, Colombia. p. 12.
30. Márkus B.: Educational metadata, FIG Working Week, Prague, 2000. p. 12.
31. Márkus B. (ed.): Second European GIS Education Seminar, EUGISES proceedings, Budapest, 2000.
32. Márkus B.: Educating professionals in land administration, COBRAC, Florianopolis, Brasil, 2000.
33. Márkus B.: Education of professionals in Hungarian Land Administration, Workshop on Capacity Building for Land Administration, Enschede, 2000.
34. Márkus B.: Developments of distributed GIS education infrastructure, UNIGIS Conference, Pretoria, South Africa, 2000.
35. Márkus B.: Networked education in land administration, FIG Working Week, Seoul, 2001. pp. 146-147.
36. Márkus B.(ed.): Space and Time, Conference proceedings, Sopron, 2001. p. 82.

37. Márkus B.: Spatial Knowledge in Land Administration, 1st International Workshop on Virtual Institute for the Modelling of Industrial Manufacturing Systems, Budapest, 2002.
38. Heine, E. – Mansberger, R. – Ágfalvi M. - Márkus B. – Nyiri J.: Assessment and Analysis of Property and Land Use Changes in the Cross Border Region Austria – Hungary, FIG Conference, Washington DC., 2002.
39. Márkus B.: Spatial knowledge management in land administration, FIG Conference, Washington DC., 2002.
40. Márkus B.: UNIPHORM – Open Educational Services on OpenGIS, EDEN Conference, Granada, Spain, 2002.
41. Márkus B.: (Global) spatial knowledge management, GSDI6 conference, Budapest, 2002.
42. Márkus B.: Strategy for professional development and academic responses - a Hungarian case study, “Land Registration and Spatial Planning in Transition Countries: Opportunities for the European Union?” workshop, Wageningen, 2002.
43. Márkus, B.: GIS Education and Hungarian Spatial Data Infrastructure, Conference on Land Reform in Ukraine, Kherson, 2003.
44. Márkus B.: Educational portal development, FIG Working Week, Paris, 2003.
45. Márkus B. – Szabó Gy. – Nyiri J. – Udvardy P.: Land use planning for rural development in Hungary, EFITA 2003 Conference, Debrecen, 2003.