CURRICULUM VITAE

NAME & SURNAME:	**IURKIEWICZ ADRIAN - ANTONIU**
NATIONALITY:	Romanian
BIRTH DATE:	October 18, 1951
AGE:	62 years
SEX:	Male
ADDRESS:	Str. Parincea, Nr.1, Bl 14, Et.2, Ap.17 75624 Sector 4, BUCHAREST, ROMANIA Tel: 0722 430 938
CIVIL STATUS:	Married – two children

EDUCATION:

May 2004	Ph.D. in Geology, University of Bucharest Thesis subject: *Systemic Analysis for Hydrodynamic Investigation of Karst Aquifers (significant examples from Romania)*.
September 1994	Short Course on Groundwater Remediation (British Council, Romanian Academic Link Project)
1992 – 1994	TEMPUS DEA – Water and Environment Sciences High Post Academic School in "Water Resources Engineering" (including four months stage in CNRS Subterranean Laboratory of Moulis - France)
1981	Postgraduate course in "Mining Hydrogeology" High Training Center of Geology Department Bucharest Romania
1977	M.Sc. in Geology and Geophysics
1971 – 1977	University of Bucharest, Faculty of Engineering Geology and Geophysics;
1966 – 1970	Middle school
1958 – 1966	Elementary school

EXPERIENCE:

September 2013 – Present University of Bucharest
Environmental Geology and Geophysics
Research Department (DCGGA)
Senior Hydrogeologist, Researcher

Job Tasks

- Consultancy and engineering in groundwater activities,
- Characterization of local and regional aquifer layers or complex structures
- Supervising and interpreting pumping tests in water wells.
- Establishing local and regional networks for quantitative and qualitative groundwater monitoring.
- Design of drainage schemes

September 2010 – August 2013 Sweco (Sweden), Ministry of Water and Irrigation
Disi – Mudawarra, Amman, Jordan
Senior Hydrogeologist Advisor

Job Tasks

- Evaluate the work methods to collect geology and hydrogeology data.
- Monitor the geology/hydrogeology conditions while drilling the production wells.
- Monitor the Project Company's conclusions regarding the geological/hydrogeological conditions of the wellfield and well design (depth and locations of casing and screens).
- Assess and review pumping test data and the determination of aquifer characteristics.
- Assess water quality analyses and the distribution of water quality with depth and location.
- Comment and report on any topic related to the hydrogeology including operation models of groundwater in the wellfield.

September 2007 – September 2010 University of Bucharest
Environmental Geology and Geophysics
Research Department (DCGGA)
Senior Hydrogeologist, Researcher

Job Tasks

- Consultancy and engineering in groundwater activities,
- Characterization of local and regional aquifer layers or complex structures
- Supervizing and interpreting pumping tests in water wells.
- Establishing local and regional networks for quantitative and qualitative groundwater monitoring.
- Design of drainage schemes

February 2006 – **August 2007** SC Agraro Consult SRL,
Bucharest, Romania.
Hydrogeologist Consultant

- Review of all hydrogeological and geological information concerning the studied areas including all reports in any previous studies carried out on sites,
- Description of main hydrogeologic features of rocks in connection with geo-structural units,
- Identification and sampling of suitable locations for the establishment of permanent sampling points for surface and groundwater monitoring,
- Well and water point inventory (location, use, design, and abstraction-discharge, from wells as well as field water quality measurements),

- Description of cutting samples and petrophysics;
- Pumping tests in wells.
- Design and drawing–up local and regional geological and hydrogeological cross-sections and hydrogeological maps at different scales.

October 2004 – January 2006 General Water Authority
Tripoli, Libya
Senior Hydrogeologist Consultant

Job Task

- Supervise contracted activities for Great Man-Made River project as following:
  - Well development and pumping tests,
  - Chemical and bacteriological analysis of well water samples
  - description of cutting samples and correlation with geophysical log;
  - visual and laboratory description and analysis performed on core samples,
  - Pumping test Interpretation
- Review of Final Technical Reports prepared by Contractors
- Review of methodologies for Development and Pumping Tests
- Responsible for hydrogeological data collection, scrutiny and validation. Management of hydrogeological database, including data analyses for reporting purposes,
- Computer analysis of well and aquifer hydraulic parameters using specific software (Infinit Extent, Step Master, etc)
- Design & Development of the Hydrogeological Data Base,
- Design and Drawing up Site Geology - synthesis of different geologic geophysics and drilling data and parameters; interpret and visualize site data on cross sections and maps
- Design and Drawing – up Hydrogeological Cross Sections and Hydrogeological Maps,
- Participate in Meetings; prepare draft *Minutes of Meeting*, reports and different other documents related to Modeling Projects.
- Different other activities as requested.

May – December 2003 FAO of United Nations
Oil for Food, SCR 986 Programme
Erbil, Iraq
Technical Officer, Head of Groundwater Unit

Job tasks

- Assist the FAO management in the North and the WRI team Leader in the discussions with local authorities for the definition of a mutually agreed operational framework, including proper linkages between the different interactors (FAO management, WRI-programme staff, Local Authorities and Technical Services) and their responsibilities.

- Assist in the preparation of strategies for a gradually increasing involvement of local technical services in the processes of planning, implementation and management of GWU activities, preparing the way to a full transfer of FAO assets and responsibilities by the end date of the programme.

- Organize and supervise together with the Local Technical Services the hydrogeological investigations (regional and detailed) aimed at defining geological and hydrogeological characteristics of the area, including (i) definition of aquifer characteristics (recharge, discharge, permeability, groundwater circulation); (ii) estimation of groundwater quantity (balance and estimation of total reserves of main aquifers and available resources for the exploitation in major basins and selected areas); (iii)

assessment of groundwater quality (estimation of water validity for irrigation and water supply purposes, hydrochemical zones and influence of the main geological formation to on the identified groundwater quality); (iv) analyze groundwater regime (groundwater table and yield versus the time, amplitude and parameter trends, minimum yield in recession period).

- Organize and supervise together with the Local Technical Services the activities under the agreed drilling programmes, such as (i) preparation of technical documentation, design and tenders; (ii) hydrogeological field surveys to define well sites; (iii) implementation of the drilling process, including casing, packing, etc. (iv) well-development, pumping tests and data collection the data; (v) preparation of drilling report and final data elaboration.

- Organize, coordinate and supervise together with the Local Technical Services field and laboratory investigations and technical studies such as (i) Geological and hydrogeological mapping; (ii) Feasibility of planned irrigation projects; (iii) Geophysical surveying and data interpretation; (iv) Satellite images interpretation; (v) Groundwater modeling; (vi) Water quality analysis and interpretation, etc.

- Organize and coordinate with the Local Technical Services the monitoring of the groundwater network, groundwater extraction etc. Assist the Local Authorities to draw up adequate regulations to prevent over-exploitation of the groundwater resource.

- Collect, elaborate, store and interpret all data collected during the above mentioned investigations and organize the preparation of the reports, maps, cross-sections, diagrams, and other standard geological and hydrogeological documentation.

- Provide training to staff from both project and local authorities as required.

May 2001 – April 2002 FAO of United Nations
May 2002 – April 2003 Oil for Food, SCR 986 Programme
Sulaimaniyah, Erbil, Iraq
Hydrogeologist Consultant

Job tasks

1. Organize and supervise the implementation of Irrigation Agricultural Program under SCR 986 related to the groundwater resources exploration and utilization for irrigation purposes;
2. Organize and supervise hydrogeological investigation (regional and detailed) aiming at defining geological and hydrogeological characteristics of the area;
3. Organize and supervise activities under the FAO drilling program, such as follows
   - Prepare technical documentation, design and tenders;
   - Conduct hydrogeological field surveys to define well sites;
   - Organize drilling process, pumping tests and data collection;
   - Instruct relevant staff in designing final well construction (normal and screened casing pipes as well as gravel pack installation;
   - Organize and supervise well development (washing, air-lifting, etc.), pumping tests and specific data collection;
   - Organize and supervise final data processing.

4. Organize, coordinate and supervise field and laboratory investigation, such as follows:
   - Geological and hydrogeological mapping;
   - Assessment of sustainability of planned irrigation projects, water quality and availability;
   - GW monitoring network design and establishment, (spring and stream discharge, and groundwater level measurements;

- Geophysical surveying and data interpretation;
- Satellite images interpretation;
- Groundwater modeling;
- Water quality data - analysis and interpretation;

5. Elaborate all previous data related to on-going investigation program and organize preparation of reports, maps, cross-sections, diagrams, and other standard geological and hydrogeological documentation.
   - Design and drawing up aquifer geology - synthesis of different geological, geophysical and drilling data and other related parameters; interpret and visualize site data on cross sections and maps;
   - Design and drawing – up local and regional geological and hydrogeological cross-sections and hydrogeological maps at different scales

6. Conduct training courses in order to increase local technical capacity;
7. Maintain close cooperation with Local Authorities and other UN Agencies representatives.

August 2000 – April 2001 SC Agraro Consult SRL,
Bucharest, Romania.
Hydrogeologist – Environmental and Engineering Department

.**Job tasks**

- Review of all hydrogeological and geological information concerning the studied areas including all reports in any previous studies carried out on sites,
- Description of main hydrogeologic features of rocks in connection with geo-structural units,
- Identification and sampling of suitable locations for the establishment of permanent sampling points for surface water monitoring,
- Well and water point inventory (location, use, design, and abstraction-discharge, from wells as well as field water quality measurements),
- Records of typical minewater occurences within the investigated mine galleries,
- Pumping tests in wells and underground pits.
- Water budget for project catchment area

1998 - February 2000 SNC Lavalin International Inc.,
Montreal, Quebec, Canada – Great Man Made River Project, Tazerbo, Libya.
Hydrogeologist – Engineering Department

Job tasks

- Well development and pumping test field activities,
- Chemical and bacteriological analysis of well water samples (HACH Laboratory – Methods and Standards),
- Verifying description of cutting samples and correlation with geophysical log;
- Check out cores description and carry out laboratory petrographic description of core samples (on sawed and polish cores surface),
- Review of the Methodology for Development and Pumping Tests according to the Contractual Requirements,
- Responsible for hydrogeological data collection, scrutiny and validation. Management of hydrogeological database, including data analyses for reporting purposes,
- Computer analysis of well and aquifer hydraulic parameters using specific software (Infinit Extent, Step Master, etc)

- Working out "Testing an Hydrogeology" section of Well Completion Reports,
- Design & Development of the Hydrogeological Data Base,
- Working out Hydrogeology section of monthly reports,
- Working out Pump Tests Report for Exploratory Sites (clusters of exploratory and piezometer wells)
- Design and Drawing up Site Geology - synthesis of different geologic geophysic and drilling data and parameters; interpret and visualize site data on cross sections and maps
- Design and Drawing – up the Hydrogeological Cross Section and Hydrogeological Maps,
- Interface with QA/QC and Owner's Representative on site.

1977 – 1998 S.C Prospectiuni S.A. – Bucharest, Romania
Hydrogeologist - Department of Hydrogeology and Geotechnical Prospecting.

Achievements

1990 - 1998 and **1981 - 1982**

- groundwater resources assessment in regional karst areas – karst systems identification, lithological and structural description, micro-tectonics profiles, labelling with chemical and activable tracers for the specification of water dynamics; flowrate gauges, meteorological parameter measurements (rainfall, snowmelt, evapo-transpiration), aquifer parameter determinations, pumping test data interpretation, time-series analyses of karst systems, different chemical parameter interpretation (standard, trace and radioactive elements, environment isotopes, bacteriological analyses) water budget, water supply projects.

1988 – 1989

- mining hydrogeology for ore deposits in sedimentary rocks – lithological description of samples and cores, sieve analysis and resulted data interpretation, steady and unsteady pumping tests for single well or cluster of wells in confined aquifers, pumping test data interpretation, dye tracer injections, flowrate gauges, water budget, design and drawing-up the hydrogeological cross-sections and hydrogeological maps.

1983 – 1987

- mining hydrogeology for ore deposits in volcanic and metamorphic rocks- aquifer identification, lithological and structural description, micro-tectonics profils, dye tracer injections, flowrate gauges, meteorological parameter measurements (rainfall, snowmelt, evapo-transpiration), aquifer parameter determinations, water budget;
- regional prospections for mineral and thermal water - lithological description of aquifers, flowrate gauges, specific water sampling, physical and chemical field analyses (temperature, pH, EH, CO2, HCO3 etc), pumping tests, emanometry works (continuous dosage of CO2 in low depth holes – ORSAT method), water resources assessment.

1977 - 1981

- Field works in drilling activities for hydrogeological well exploration (lithological description, interpretation of geophysical logs, program for well screens, development and pumping test programs, steady and unsteady pumping tests for single well or cluster of wells in confined or unconfined aquifers);
- hydrogeological studies for water supply projects;
- hydrogeological studies for coal deposit dewatering (analysis and evaluation of pumping tests data, hydraulic parameters evaluation, design and drawing-up the hydrogeological cross-sections and hydrogeological maps.

Unpublished Reports

(Geological and Hydrogeological Reports and Studies, S.C Prospecţiuni S.A, SC Agraro, UN-FAO and UB-DCGGA – Archives).

1. Prospecţiuni hidrogeologice pentru cãrbuni în depresiunea Şimleului, perimetrul Bobota – Sãrmãşag, judeţul Sãlaj, 1980.
2. Prospecţiuni hidrogeologice pentru ape minerale în bazinul hidrografic al râului Bistriţa în vederea stabilirii potenţialului balnear, jud. Neamţ 1978.
3. Studii hidrogeologice complexe în munţii Pãdurea Craiului, zona Remeţi – Tileagd, jud. Bihor, cu privire specialã asupra exploatãrii lentilelor de bauxitã situate sub nivelul hidrostatic, 1981.
4. Prospecţiuni hidrogeologice pentru ape potabile în zona localitãţii Dezna, jud Arad, 1979.
5. Studii hidrogeologice complexe pentru ape potabile şi stabilirea condiţiilor hidrogeologice ale zãcãmintelor de bauxitã din munţii Pãdurea Craiului, jud Bihor, 1982.
6. Prospecţiuni pentru stabilirea parametrilor hidrogeologici ai stratelor acvifere din coperişul stratului 15 de cãrbune (blocurile IV si V, Lupeni-Est), 1982.
7. Studiu privind condiţiile hidrogeolgice ale amplasamentului puţului minier Tolovanu, jud. Suceava, 1983.
8. Studii hidrogeologice pentru ape minerale în zona Toşorog, jud. Neamt, 1983.
9. Studiul hidrogeologic al structurilor metamorfice eruptive şi sedimentare din bazinul Borşa Vişeu, jud. Maramureş (etapã -1983, final 1984).
10. Prospecţiuni pentru stabilirea condiţiilor hidrogelogice ale zãcãmântului Ilba, jud. Maramureş (etapã - 1985, final - 1986).
11. Prospecţiuni pentru determinarea condiţiilor hidrogeologice ale zãcãmântului de la Novicior, jud. Maramureş 1985.
12. Prospecţiuni pentru stabilirea condiţiilor hidrogeologice ale perimetrelor miniere Cârlibaba– Ţibãu şi Dornişoara – Colibiţa, jud. Suceava (etapã - 1986, final -1987).
13. Prospecţiuni pentru stabilirea condiţiilor hidrogeologice de zãcãmânt în zona minierã Iulia, jud. Tulcea (etapa - 1988, final -1989).
14. Studiul hidrogeologic şi hidrochimic al zãcãmântului de la Altân – Tepe, jud. Constanţa, 1989.
15. Studii pentru stabilirea potenţialului hidrogeologic al depozitelor carbonatice din munţii Vâlcan, jud. Gorj (etapã - 1990, final - 1991).
16. Studii pentru stabilirea condiţiilor hidrogeologice ale zãcãmântului Toroiaga sub orizontul -12, jud. Maramureş, 1992.
17. Studii hidrogeologice pentru evaluarea resurselor de ape subterane din depozitele carbonatice mezozoice ale sinclinalului Reşiţa - Moldova Nouã, perimetrul Reşiţa - Anina (etapã -1992, final - 1993).
18. Studii hidrogeologice pentru evaluarea resurselor de ape subterane din depozitele carbonatice mezozoice ale sinclinalului Reşiţa - Moldova Nouã, perimetrul Anina - Sasca Montana, (etapã - 1994, final - 1995).
19. Modelarea Acviferelor Carstice (Concepte, Parametri, Modele, Exemple), Partea 1, Analiza Sistemica, *Premiul Liteanu*, Arhiva AHR, Bucuresti 1996; autor lucrare
20. Studii hidrogeologice pentru evaluarea resurselor de ape subterane din depozitele carbonatice mezozoice ale sinclinalului Reşiţa - Moldova Nouã, perimetrul Nera – Dunăre (etapã - 1996, final - 1997).
21. Environmental Impact Assessment for Gold mining operations within Rosia Montana mining area (co-author)
22. Environmental Baseline Condition Study in Zlatna-Hanes-Stanija mining area, (Counties of Alba and Hunedoara) (co-author)
23. Fundamentarea teoretica si aplicativa a sistemului informatic de monitorizare integrata a caracteristicilor fizico-chimice ale apelor subterane, Contract nr.1, Arhiva AHR, Bucuresti, Martie 1996; co-autor lucrare la ambele faze
    - Criterii de optimizare a monitorizarii pentru acvifere de tip granular

- Analiza spatio-temporala si optimizarea monitorizarii caracteristicilor fizico – chimice (studiu de caz: Acviferul carstic Jurasic-Cretacic din judeţul Constanţa

24. Consultancy Mission Report, SCR 986 „Oil for Food" Programme, FAO Northern Iraq, April 2002; Arhiva TCS - FAO Rome, hydrogeologist consultant; autor
25. End of Assignment Report SCR 986 „Oil for Food" Programme, FAO Northern Iraq, April 2003; Arhiva TCS - FAO Rome, hydrogeologist consultant; autor
26. End of Assignment Report SCR 986 „Oil for Food" Programme, FAO Northern Iraq, December 2003; Arhiva TCS - FAO Rome, team leader; autor
27. Evaluarea preliminară a structurilor acvifere şi a corpurilor de apă, AQUASUD Proiect PN2, Programul 4 Parteneriate, Etapa 1. Bucuresti Noiembrie 2007, Arhiva Geo Aqua Consult SRL, co-autor.
28. Water Supply Assessment BERE MURES S.A. Ungheni, Mures County, Romania, Arhiva AMEC Earth & Environmental S.R.L., Ianuarie 2008; expert hidrogeolog; co-autor;
29. Limited Assessment of Water Sources BACAIA area, Alba and Hunedoara Counties, Romania, Arhiva AMEC Earth & Environmental S.R.L, January 2008; expert hidrogeolog; co-autor;
30. Studiu de impact de mediu pentru reabilitarea DN 75 Stei – Turda, 2008; Arhiva ASA Env.Services, co-autor;
31. Studiu hidrogeologic prin pompări experimentale pentru proiectarea schemei de asecare a incintei de fundare de pe amplasamentul str. Dorobanţilor, fosta incintă Filty SA, Timişoara, Arhiva AHR, Bucuresti, Martie 2008; Arhiva AHR; membru echipă; co-autor;
32. Studiu de impact de mediu pentru reabilitarea DN74, Brad - Alba Iulia, 2008, Arhiva ASA Env.Services, co-autor;
33. Studiu de impact de mediu pentru reabilitarea Drum Expres Arad – Oradea 2008, Arhiva ASA Env.Services, co-autor;
34. Studiu de impact de mediu pentru reabilitarea DN Brăila – Galaţi 2008, Arhiva ASA Env.Services, co-autor;
35. Studii preliminare privind morfologia/geologia zonei de amplasare si a ariei de influenţă a DNDR Baiţa-Bihor şi extinderea caracterizării amplasamentului din punct de vedere geologic pentru identificarea unor potenţiale căi de migrare a radionuclizilor depozitaţi, ORDDER, Proiect PN2, Programul 4 Parteneriate, Bucuresti Iunie 2008; Arhiva DCGGA, membru echipă; co-autor;
36. Studiu de impact de mediu pentru reabilitarea DN 15 (Bicaz - Poiana Largului) şi DN 17B (Poiana Largului – Vatra Dornei), 2008, Arhiva ASA Env.Services, co-autor;
37. Water Supply Assessment BERE AZUGA S.A. Azuga, Prahova County, Romania, Arhiva AMEC Earth & Environmental S.R.L., Ianuarie 2009; expert hidrogeolog; autor;
38. Analiza condiţiilor hidrogeologice pe versantul vestic al bazinului Ciucului inferior, în scopul asigurării protecţiei cantitative şi calitative a resurselor de apă minerală naturală din zona Sâncrăieni, Raport de cercetare, Bucuresti, Februarie 2009, Arhiva DCGGA, membru echipă; co-autor;
39. Raport anual al lucrărilor geologice-hidrogeologice de explorare în perimetrul Ciobotani, judetele Mures si Harghita, Raport de cercetare, Bucuresti, 2009, Arhiva DCGGA, membru echipa; co-autor;

Published papers

1. VALENAS L, IURKIEWICZ A, 1981, Studiul complex al carstului din zona Şuncuiuş - Mişid (Munţii Pădurea Craiului), *Nymphaea* 1980-1981, Oradea, pp.312 - 378.
2. ORASEANU I, IURKIEWICZ A, GASPAR E, POP I, 1984, Sur les conditions hydrogeologiques des accumulations de bauxite du plateau karstique de Răcaş - Sclavul Pleş (Monts Pădurea Craiului), *Theoretical and Applied Karstology*, tome 1, Bucharest, pp.77-82.
3. IURKIEWICZ A, MITROFAN H, 1984, On karstic cavities vertical distribution regularities in Southern and South-Western Pădurea Craiului Mountains, *Theoretical and Applied Karstology*, tome 1, Bucharest, pp.147-154.
4. ORASEANU I, IURKIEWICZ A, 1983, Phenomene de diffluence karstique dans la partie orientale des Monts Pădurea Craiului, *Travaux de l'Institut de Speologie "EMIL RACOVITA* tome XXIII, Bucharest.

5. VALENAS L, IURKIEWICZ A, 1985, Morfologia Pesterii de la Hoanca Apei (Muntii Bihor), Crisia, XV, Oradea, pp.499-501.
6. ORASEANU I, IURKIEWICZ A, 1987, Hydrological Karst Systems in Pădurea Craiului Mountains, *Theoretical and Applied Karstology*, tome 3, Bucharest, pp.215-222.
7. IURKIEWICZ A, L'interet de l'analyse systemique dans l'evaluation de la vulnerabilite a la pollution des systemes karstiques des monts Vâlcan, *Proceedings of the International Symposium Impact of industrial activities on groundwater*, 23 - 28 May, 1994, Constantza, Romania.
8. IURKIEWICZ A, MANGIN A, 1995, Etude hydrodynamique du karst du versant sud des Monts Vâlcan, *Theoretical and Applied Karstology*, tome 7, Bucharest, , pp.3 – 83.
9. IURKIEWICZ A, CONSTANTIN S, 1996, Banat Mountains, in Karst of Southwestern Romania, Field-trip Guide to the XIVth Symposium on Theoretical and Applied Karstology, Institutul de Speologie Emil Racoviţă, Bucureşti, pp.13-30.
10. IURKIEWICZ A, CONSTANTIN S, POVARA I, 1996, Banat Karst Tour, in Karst of Southwestern Romania, Field-trip Guide to the XIVth Symposium on Theoretical and Applied Karstology, Institutul de Speologie Emil Racoviţă, Bucureşti, pp.30-48.
11. IURKIEWICZ A, ORASEANU I, 1995, Karst terrains and major karst systems in Romania, Karst Waters & Environmental Impacts (*Proceedings of Int. Symp. Antalya, Turkey*) edited by G.Günay & A.I.Johnson, Balkema, Rotterdam, pp.471-478.
12. IURKIEWICZ A, BADESCU B, CONSTANTIN S, 1996, Sisteme carstice majore din zona Reşiţa – Moldova Nouă, Ed. A.S.Exploratorii, Reşiţa, 68p.
13. IURKIEWICZ A, DRAGOMIR G, ROTARU A, BĂDESCU B, 1996, Karst systems in Banat Mountains (Reşiţa-Nera zone) - *Theoretical and Applied Karstology*, tome 9, Bucharest, pp.121-140.
14. IURKIEWICZ A, VOICA MARIANA, BULGĂR A, 1996, Indirect evaluation of the Izvarna karst system discharge trend, *Theoretical and Applied Karstology*, tome 9, Bucharest, pp.113-119.
15. IURKIEWICZ A, BĂDESCU B, MARINICĂ A, 1996, Intensity of karst processes as a function of the carbonate formations in the north Reşiţa Moldova-Nouă Synclinorium, *Theoretical and Applied Karstology,* tome 9, Bucharest, pp.219-226.
16. IURKIEWICZ A, FERU A, 1997, Karst and non-karst occurrences of natural mineral still waters, *Theoretical and Applied Karstology*, tome 10, Bucharest, pp.161-165.
17. IURKIEWICZ A, 1997, Quantity or quality? A brief point of view on the transition in the Romanian Hydrogeology, 100 Years of Hydrogeology in Yugoslavia, Belgrade, pp.63-67.
18. IURKIEWICZ A, 2002, Drilling and Testing Water Wells. 2002 Manual for Drilling Training Course in Northern Iraq, published by FAO Northern Iraq, 153p.
19. STEVANOVIC Z, IURKIEWICZ A, 2003, Hydrogeological Research and Strategy for Groundwater Utilization in Northern Iraq – poster, XI *World Water Congress*, 4-10 October, Madrid.
20. STEVANOVIC Z, IURKIEWICZ A, 2004, Karst of Iraqi Kurdistan – Distribution, Development and Aquifers, *Bulletins of Board, Karstology and Speleology*, Serbian Academy of Sciences and Arts.
21. STEVANOVIC Z, IURKIEWICZ A, 2004, Hydrogeology of Northern Iraq (vol.2), Regional hydrogeology and aquifer systems, Spec. Ed. TCES, FAO, Rome, 175p.
22. STEVANOVIC Z, IURKIEWICZ A, 2004, Geologic-tectonic factors controlling groundwater flow patterns and discharge of karst aquifers in Western Zagros (Northern Iraq), *XXXIII IAH Congress & 7th ALHSUD* Groundwater Flow Understanding: from local to regional scales, October 11th - 15th, 2004, Zacatecas (Mexic).
23. STEVANOVIC Z, IURKIEWICZ A, 2005, The caves of Iraqi Kurdistan – The results of preliminary exploration and needs for their protection, *Books of Abstracts of 5th Symposium on Karst Protection*, September 2005, Guca.
24. IURKIEWICZ A, HOROI V, POPA ROXANA MARIA, DRAGUSIN V, VLAICU M, MOCUTA M, Groundwater vulnerability assessment in a karst area (Banat Mountains, Romania) - support for water management in protected zones, *Proceedings of Int. Conference & Field Seminar - Water Resources & Environmental Problems in Karst CVIJIĆ 2005*, Belgrade, Kotor.
25. STEVANOVIC Z, SALAHADDIN A, IURKIEWICZ A, LOWA F, ANDELIC M, EKREM M, 2005, Tapping and managing a highly productive semiconfined karst aquifer – Swarawa near Sulaimaniyah (Iraq),

Proceedings of Int. Conference & Field Seminar - Water Resources & Environmental Problems in Karst CVIJIĆ 2005, Belgrade, Kotor.
26. PALCU M, Mihaela Carmen MELINTE, IURKIEWICZ A, WITEK G, ROTARU A, 2008, Inventarierea preliminară a structurilor acvifere din partea sudică a României, *GEO-ECO-MARINA 14/2008* – SUPLIMENT NR. 1, 7-16.
27. TENU A, IURKIEWICZ A, DAVIDESCU F, 2008, Elemente hidrogeologice obţinute prin izotopi de mediu în carstul Munţilor Vâlcan, *AHR-Hidrogeologia*, Bucureşti, 8(1):19-31.
28. IURKIEWICZ A, 2008, Recharge and specific yield of Bekhme aquifer in Pira Magroon karst area (NE Iraq), *AHR-Hidrogeologia,* Bucureşti, 8(1):32-49.
29. STEVANOVIC Z, IURKIEWICZ A, 2009, Groundwater management in northern Iraq, *Hydrogeology Journal*, Springer, 17:367-379.
30. STEVANOVIC Z, IURKIEWICZ A, MARAN ALEKSANDRA, 2009, New insights into karst and caves of northwestern Zagros (northern Iraq), *Acta Carsologica*, Ljubljana, 38/1:83-96.
31. IURKIEWICZ A, 2010, Hydrogeology and exploitation of Izvarna Spring, Romania, in "Groundwater Hydrology of Springs; Engineering, Theory, Management and Sustainability", Eds: Kkresic, N, Stevanovic, Z, Elsevier, 573p.
32. IURKIEWICZ A, STEVANOVIC Z, 2010, Reconnaissance study of active sulfide springs and cave systems in the southern part of the Sulaimani Governorate (NE Iraq), *Carbonates and Evaporites*, Volume 25, Number 3, 203-216, Springer, DOI: 10.1007/s13146-010-0024-3.
33. ORASEANU IANCU, ADRIAN IURKIEWICZ, (Eds), 2010, Karst Hydrogeology of Romania, Oradea, Ed. Federatia Romana de Speologie, 444p.

Unpublished papers:

- Drenaje subterane din Munţii Pădurea Craiului, 1985, *TAK Symposium*, Cluj-Napoca, Romania.
- Morfogeneza endocarstului din Munţii Pădurea Craiului, 1985, *TAK Symposium*, Cluj-Napoca, Romania.
- Consideraţii privind hidrogeologia carstului din Munţii Rodnei (zona Borşa Fântânã – Vf. Piatra Rea), 1986, *TAK Symposium,* Bãile Herculane, Romania.
- Condiţiile hidrogeologice ale zãcãmântului minier cantonat în roci carbonatice de la Iulia, 1990, *TAK Symposium,* Bãile Herculane, Romania.
- Sisteme hidrogeologice carstice din zona sud-estica a muntilor Vilcan, 1991, *TAK Symposium* Baile Herculane Romania.
- Consideratii hidrogeologice in partea de sud a muntilor Vilcan, 1992, *TAK Symposium* Baile Herculane Romania.

FOREIGN LANGUAGES: French. English.

DRIVING LICENSE: vehicles from B category.

MEMBERSHIP IN ASSOCIATION: Romanian Association of Hydrogeologists
International Association of Hydrogeologists
Romanian Society of Speleology and Karstology
Scientific Council of The National Park Semenic - Cheile Caraşului

Date: 14.01.2014

Adrian IURKIEWICZ