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**Name:** Petru Boeriu  
**Year of birth:** 1943  
**Nationality:** Dutch/Romanian  
**Present position:** Professor, Hydraulic engineering expert, Department of Hydraulic engineering and river basin development.  
**Years with firm:** 14  
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#### EDUCATION:

1960 - 1966 BSc at Technical University of Timisoara, Romania, Faculty of Civil Engineering, Specialisation in hydraulic structures (1966). *Thesis:* Design of buttress dams.  
1969 University of Timisoara, Faculty of Mathematics  
1970 Fundamental course on computational techniques  
1972 PhD Thesis at Technical University of Timisoara, Romania (Thesis: "Contribution to the hydraulics of long pipes with two-phase flow")  
1978 – 1980 Several three months stages in designing and construction of concrete dams and appurtenance structures  
1993 Environmental impact assessment, of river basins (Tempus Program) at Technical University Delft, The Netherlands  
1993 Water management course, Uppsala University, Sweden, Erken Laboratory

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#### AWARDING:

2002 Academic degree of *Honorary Professor* of the Technical University, Timisoara, Romania  
2007 Member of American-Romanian Academy of Science (ARA)

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#### EMPLOYMENT RECORD

1966 – 1968 Supervisor of a hydropower plant (500MW) construction on River Lotru, Romania.  
1968 - 1970 Assistant professor at the Faculty of Hydrotechnics, Technical University of Timisoara ( Fluid Mechanics, Hydraulic )  
1970 - 1982 Lecturer in Hydraulics, Engineering of Dams, Hydropower, Hydraulic structures  
1982 -1989 Associate Professor.  
1989 - 1992 Head of the Hydraulic and Environmental Engineering Department of the Faculty of Hydrotechnics of Technical University of Timisoara.  
1992- 1994 Expert advisor for Delft Hydraulic Laboratories, The Netherlands.  
1993 to date Associate Professor at IHE Delft, The Netherlands, Hydraulic Engineering department.  
2004 -2006 Acting Head of the Hydraulic Engineering Core

#### KEY QUALIFICATIONS

- Expert in the design and operation of hydraulic structures and management of water resources for river basin development.
- Key note addresses, Chairman and co-chairman, at international conferences
- Experience in management of international projects and team building accumulated in more than 10 years in the Nile river basin and in the Middle East.
- Formulation of the term of reference for water resources development projects including formulation of project proposals for EU framework programmes.
- Good knowledge of EU programs and links developed during years of close contacts
- Extensive experience in research and teaching activities in the integrated water resources management area.
- Expert advisor and contribution to the development of Environmental Impact Assessment Methodologies and Tools of water related projects based on practical cases and personal contributions.
- Manager of large projects in the Nile Basin on establishment of the Nile Basin Capacity Building Network for River Engineering. Activities include research, planning, design and implementation of small hydropower plants, development of modern ICT tools, etc.

**MAIN DISCIPLINES/SPECIALISATION.**

River Hydraulics, Hydropower Development, Environmental Impact Assessment, Design and Operation of River Structures

**EXPERIENCE RECORD.**

- 1966 – 1968 Supervisor of a hydropower plant (500MW) construction on River Lotru Romania.  
Involved in:
- *Technological process of excavation of the diversion tunnel at the dam site*
  - *Preparation of the foundation of the dam*
  - *Preparation of the exam for admission at PhD*
- 1968 - 1970 Assistant professor at the Faculty of Hydrotechnics, Technical University of Timisoara, (Fluid Mechanics, Hydraulics)
- 1970 - 1982 Lecturer:
- *Lecturer at undergraduate and postgraduate level in Hydraulic Structures, River Engineering, Hydraulics of the Irrigation Systems, etc.*
  - *Managed the research activity in the hydraulic laboratory*
  - *Prepared and published Lecture Notes*
  - *Supervised practical activities*
  - *Carried out applied and fundamental research in the field of hydraulic structures*
  - *Involved in the design of several river hydraulic structures and of large hydropower plants in Romania*
- 1982 -1989 Associate Professor. Involved in:
- *Guidance of Ph.D and M.Sc. studies.*
  - *Lecturer on fluid mechanics, bridge hydraulics, hydraulics of the irrigation systems.*
  - *Project manager of several projects: EIA studies, dams and appurtenant works, intakes, urban drainage.*
  - *Design of hydraulic structures such as bottom intakes, river intakes, etc.*
  - *Leader of several themes for fundamental and applied researches*
  - *Supervision of PhD studies*
- 1989 - 1992 Head of Hydraulic and Environmental Engineering Department of the Faculty of Hydrotechnics of Technical University of Timisoara. Main activities during this period:



- *Development for the first time in Romania of the curriculum for the Environmental Engineering Course*
  - *Establishment and development of new research directions within the department of Hydraulic and Environmental Engineering Department*
  - *Managerial activities*
  - *Writing research proposals for EU programmes*
  - *Involvement of the department in a TEMPUS program together with TU Delft and Universities from Hungary, Austria and Germany.*
- 1992- 1994 Technical assistance to Delft Hydraulic Laboratories, The Netherlands.
- *Research on the physical model for Haarlingen lock in 1993*
  - *Technical Advisor for writing a project proposal for Flood Propagation on Danube River in the framework of EU programmes, (De Voorst, 1994).*
- 1993 to date Associate Professor at IHE, Water Engineering department. Involved in:
- *Teaching in River Intakes and Headwork, Physical Models, Environmental Impact Assessment, Wadi Hydraulics*
  - *Course leader in 1994, 1995 and 1996*
  - *Engaged in lecture notes preparation for Water Resources development, Dams Engineering, Hydropower, Environmental Impact Assessment*
  - *Guidance group-work projects for River Engineering.*
  - *Guidance of the M.Sc. and M.Eng studies, International Course in Hydraulic Engineering (IHE Delft)*
  - *Management of projects*
  - *Expert advisor*
- 1993 Participation in TEMPUS program (one month at RBA Centre from TU Delft).
- 1996 – 2000 Manager of the Dutch - Egyptian co-operation project on “Strengthening the Training Capacity of the Hydraulics Research Institute (HRI)”, Delta Barrage, Egypt. Main activities during this period:
- *Development of the curricula of the 3 months course on Hydraulic Engineering in River Basin*
  - *Involvement of several lecturers from IHE in the training activities in Egypt*
  - *Contributing to the design and realisation of a modern regional training centre at Hydraulics Research Institute (HRI) in Cairo, Egypt well known in Africa and Middle East countries.*
  - *Formation of a team of lecturers from Egypt including design and implementation of a Training of Trainers ToT) Program.*
  - *Managerial and funds raising activities. In this respect at the end of the project the course became fully sustainable. After two years of training activities, The Ministry of the Egyptian Ministry of Foreign Affairs allocated fellowships for the foreign participants to the short and diploma courses on a permanent basis. The Ministry of Water resources and irrigation supported the participation of the Egyptian participants.*
  - *The HRI-RTC became in short time well known not only in the African continent being highly appreciated by the Egyptian Government (Dr. M. Abu-Zeid, the Minister of the Egyptian Ministry of Water resources and Irrigation). As a direct consequence the course have been visited in 1997 by the Queen of the Netherlands, a delegation of the Dutch Ministry of Science and Education including former Minister of OCW, J. Ritzen and several Ambassadors of the African, European and Arab countries.*
- 2000-2004 Manager of the Dutch - Egyptian project on “Establishment of the Nile Basin Capacity Building Network in River Engineering (NBCBN-RE)”. Main activities and achievements:



- Stationed in Cairo between 2000 and 2002
  - Development of the operational and organisational concept of Nile Basin capacity Building Network for River Engineering
  - Organisation of an international workshop in Cairo in 2002 and regional workshops in Sudan, Tanzania, Ethiopia, Egypt, Uganda and Kenya.
  - Assessment of the training needs in the Nile Basin Countries
  - Development of the research structure of NBCBN – RE
  - Establishment of six regional cluster nodes in Sudan (Main topic: River Morphology), Egypt (GIS and Modelling), Tanzania (Hydropower development), Ethiopia (River structures), Uganda (Environmental Aspects of River Related Structures), Kenya (Flood Management)
  - Elaboration of the research plans for nodes of the network
  - Scientific advisor of the Ethiopia regional research Cluster of River Structures
  - Elaboration of inception, progress, financial reports and proceedings of the workshops held in the framework of the project
  - Involvement (Generation of work) of several IHE staff in the project activities
  - Frequent missions abroad (Ethiopia, Tanzania, Uganda, Kenya, Sudan, Jordan, UAE, etc.)
  - Development of quality standards at the level of the NCBN-RE
  - Development of a collaborative platform and of a website for NBCBN
  - Training organised for participants to NBCBN – Re for use of the collaborative platform
  - Introduction of modern training tools in the Nile Basin Region
  - Development of interactive teaching methods in the training activities organised at HRI-RTC
  - Publication of an electronic version of the NBCBN Newsletter
- 2004 -2006 Acting Head of the Hydraulic Engineering Core

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### **EXPERIENCE IN CONSULTANCY, PROJECT ASSIGNMENTS.**

- 2007 Key EIA expert for a Belgium, Italian and UK consortium
- 2006 Project manager of the project on Establishment of Knowledge Management Networks in the Nile Basin (KNNB)
- 2005 Fact finding missions in Africa for Dutch Ministry of the Foreign Affairs  
Project formulation on Knowledge Networks for the Nile Basin – Ministry of Foreign Affairs
- 2000-2004 Several missions in African Nile countries (Tanzania, Kenya, Sudan, Ethiopia, Tanzania, Uganda, etc.), and in the Arab countries.
- 2000-2002 Resident in Cairo as the manager of the Dutch Egyptian project on Establishment of the Nile Basin Capacity Building Network (NBCBN) for River Engineering.
- 2002 Formulation of the research plans of the NBCBN clusters
- 2003 Leader of the Dutch team for formulation of a strategic term of reference for a flood management project in Romania – Nederland Water Partnership (NWP), Dutch Ministry of Economic Affairs
- 1999 Observer for the Dutch Ministry of Science and Education (OCW) to the Steering Committee Meeting of the Mediterranean Countries, Malta.  
Formulation of a project proposal financed by the Dutch Ministry of Science and Education (OCW) on Management of Water Scarcity to be financed by EU - MEDA program.



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- 1996-2000 Project manager of the Dutch Egyptian project on Strengthening the Capacity Building of the Hydraulics Research Institute (HRI), Cairo, Egypt.
- 1998 Team Leader in the project proposal on Implementation of the Water Framework Directive (WFD) and Integrated Coastal Management in Transitional and Coastal Waters of the Black Sea, presented by a consortium formed by GRONTMIJ CONSULTING ENGINEERS, AQUA SENSE and WITTEVEEN & BOS.
- 1995 Involved as a consultant for the project proposal Ecological rehabilitation of the Sasar River. The proposal has been submitted by a consortium formed of WITTEVEEN & BOS, WL/DELFT HYDRAULICS, ECORYS NEI
- 1995 Involved as a consultant in the project proposal made by WL/DELFT HYDRAULICS, HASKONING and WITTEVEEN & BOS on Strategy Flood Control of the Jijia River Management Plan.
- 1994 Expert advisor for HASKONING: EIA study of a coastal protection project in Trinidad & Tobago.
- 1993 - Expert advisor to Delft Hydraulics Laboratory.  
- Expert advisor for writing a EU project proposal for Flood Propagation on Danube River in the framework of EU programmes, (De Foorst, 1994).  
- Participation in EU Tempus programme (TU Delft, T.U. Karlsruhe, Germany, TU Vienna, Austria, TU Timisoara, Romania, etc.)
- 1980-1993 Design and supervision of several small dams and river intakes works on different rivers in Romania
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**ORGANISATION, CO-ORDINATION AND LECTURING POST GRADUATE SHORT COURSES:**

- *Modelling Support to Hydraulic Engineering, Egypt 1997, Delft 2002*
  - *Environmental Impact Assessment of the Water Projects, Cairo, Egypt 1998, 1999, 2000*
  - *Environmental Impact Assessment: Nubian sand stone aquifer, 2002*
  - *Engineering aspects of Water Harvesting Systems, Cairo, Egypt 1998,1999, 2003*
  - *3 months diploma course on Hydraulic Engineering in River Basins, Cairo, Egypt 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003*
  - *IHE Refresher Seminar on management of Water Scarcity, Amman, Jordan 2001*
  - *IHE Refresher Seminar on Modelling Support for Management of Water Scarcity, Egypt 8 – 13 December 2003*
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**LANGUAGE PROFICIENCY:**

<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
Romanian	Mother tongue	Mother tongue	Mother tongue
English	Good	Good	Good
French	Good	Good	Good
Dutch	Good	Moderate	Moderate
Hungarian	Moderate	Good	Moderate
Italian	Moderate	Moderate	Moderate
Russian	Slight	Slight	Slight
Arabic	-	Slight	-

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**PROFESSIONAL AFFILIATION:**



- 1986 International Association of Hydraulic Research, (IAHR)  
2000 International Hydropower Association (IHA)
- Member of the editorial board of the Journal of Hydrology and Hydromechanics edited by the *Czech Academy of Science*.
  - Member of the editorial board of the Hydro technique Journal edited in Romania
  - Member of the executive board of international conferences on Hydropower and Dams
  - Scientific reviewer for *Wiley & Sons, ICID and other magazines*

#### KEY NOTES ADDRESSES, CHAIRMANSHIP IN THE INTERNATIONAL CONFERENCES.

Chairman and co-chairman, at international conferences:

- Chairman of the session on Modelling and Design of Hydropower - International Conference Hydropower 2008, Ljubljana, Slovenia, October 6 – 8, 2008.
- Chairman of the session on Climate Change at the of International Hydropower Association (IHA), Antalya, Turkey, 2007
- Member of the panel discussion on Capacity Building at the International Conference Hydro 2007, Granada, Spain, October 2007
- Chairman of the section Design and operation of Hydropower, Hydro 2008, International Conference, Ljubljana, Slovenia 2008.
- *International Conference on Preventing and Fighting Hydrological Disasters, Timisoara 2002*
- *International kick off workshop Cairo, 1996 and 2002*
- *Regional workshop for launching of Sudan Regional research Cluster on River Morphology*
- *Regional workshop for launching of Ethiopia Regional research Cluster on River Structures*
- *Regional workshop for launching of Uganda Regional research Cluster on Environmental Aspects of River Related Projects.*
- *Regional workshop for launching of Egypt Regional research Cluster on GIS and Modelling*
- *International Conference of Hydropower Association, 2007, Antalya, Turkey.*
- General Reporter:
  - *International Conference on Coping with Water Scarcity, Egypt, 1998*
- Keynote Speeches:
  - *International Conference on Preventing and Fighting Hydrological Disasters, Timisoara 2002: Social aspects of environmental impacts.*
  - *International UNESCO Scientific Seminar on Danube River of Cooperation, Belgrade 2003: Education and Sustainable Development*
  - *Conference of the IHP committees of the Arab Countries, Egypt, 2003*
  - *25 Years of Dutch Egyptian Cooperation: Regional Dimension of HRI – IHE Cooperation.*
  - *International Kick off Workshop Cairo 2002: NBCBN and River Engineering*
  - *Regional Workshop in Sudan: Training activities in NBCBN*
  - *Regional Workshop in Ethiopia: River intakes - An Overview*
  - *Regional Workshop in Egypt: Scale Studies: Some Considerations.*
  - *Regional Workshop in Uganda: EIA Methodologies.*
  - *International conference Water and Food Security in Arid and Semi Arid Regions, Bari, Italy, 6 – 11 September 2005*

#### SELECTED PUBLICATIONS (Scientific magazines and proceedings of the international conferences)

Boeriu, P., Contribution to the hydraulics of two phases flow in long pipes. *Doctoral thesis*



- Boeriu P., et all Consideration on the sediment transportation process in a settling basin, Journal of Hydrology and Hydromechanics, Czech Academy of Science, pg 16 - 25, Vol 57, 2009
- Boeriu P., et all The UNESCO-IHE's approach in building up capacity in the water field, Proceedings of the International Conference HYDRO 2009, Lyon, France, 25 - 29 October 2009
- Boeriu P., et all Hydropower development starts with capacity building: A case study from the Nile Basin region, Proceedings of the International Conference HYDRO 2009, Lyon, France, 25 - 29 October 2009
- Boeriu P., et all Research and development activities on small hydropower: A case study from Ethiopia, Proceedings of the International Conference HYDRO 2009, Lyon, France, 25 - 29 October 2009
- Boeriu P., et all Consideration about the design of the loading chamber of a small hydropower plant, Proceedings, International Conference Hydropower 2008, Ljubljana, Slovenia, 6 - 8 October 2008 .
- Boeriu P., et all Use of mathematical models to improve the design of the stilling basin, Proceedings, International Conference Hydropower 2008, Ljubljana, Slovenia, 6 - 8 October 2008
- Boeriu P., et all The effect of the turbulence on the sedimentation process in settling basins, Proceedings, International Conference Hydropower 2007, Granada, Spain, 15 - 17 October 2007.
- Boeriu P., et all Management of water scarcity starts with capacity building: Experiences from the Nile basin, Keynote paper, Proceedings of the International Conference on Water, Land and Food Security in Arid Regions, 6-11 September 2005, Bari-Italy, pp451-469, ISBN 2-85352-326-8
- Boeriu P., et all Mathematical modelling of the settling basins: A case study, Proceedings, International Conference on Hydropower 2006, Porto Carras, Greece, September 2006
- Boeriu P., et all Some considerations about reservoir sedimentation: A case study, Proceedings of the International Conference Hydro 2005: Policy Into Practice, Villach Austria, 17-20 October, 2005.
- Boeriu P., Considerations about the transport of heavy materials by open channel flow, Proceedings of the 12th International Conference on Transport & Sedimentation of Solid Particles and Freight Pipelines, 20-24 September, Prague, Czech Republic
- Boeriu P., A Boolean approach for preliminary assessment of environmental impacts of water resources development projects; A case study in the Nile Basin, Proceedings of the International Conference Hydro 2004, 18 - 21 October 2004, Porto, Portugal.
- Boeriu P. et all: Environmental Impact Assessment of a Coastal Protection Project in Trinidad and Tobago *Report, 2001*
- Boeriu P., The environmental impact of the large dams, 6th International Danube - Rhine International workshop Karlsruhe, Germany, 1993
- Boeriu P., Considerations on the influence of the roughness coefficient of the water supply tunnels on the power outputs of the hydropower plants, Proceedings of the International Conference Hydro 2004 (The Way Forward for Hydrpower), 3 - 6 November, 2003, Dubrovnik, Croatia, pp 837 - 843
- Boeriu P., et all, Management of Aquifer recharge and Subsurface Storage, *Volume edited by Netherlandse Hydrologische Vereining (NNC-IAH), publication no. 4, pg 55 - 66.*
- Boeriu P., et all, Physical model study for Harlingen lock (Ijking Tsjerk Hiddessluizen te Harlingen Onderzoek naar de bepaling van de afvoerrelaties, Waterloopkundig laboratorium, 1993) *WL/Delft Hydraulics Laboratory - Report*
- Boeriu P., et all, Water treatment plants for small cities, Water Symposium Congress, Sweden, Stockholm 1993
- Boeriu P., et all, Flow stability problems pointed out on a scale study of a flood spillway, *2<sup>nd</sup> International Conference on Hydraulic Modelling, 1994, United Kingdom, pp. 71-76*

- Boeriu P., et all, A comparison between numerical and classical methods for studying the influence of a storage on the groundwater table, *Proceedings of the First International Conference on Hydro Informatics, IHE Delft, The Netherlands, 1994*
- Boeriu P., Scale studies for mountain stream intakes, *Proceedings of the International Conference on Modelling, Testing & Monitoring for Hydropower plants II, Laussane – Switzerland, 8-11 July, pp.453 – 461*
- Boeriu P.,et all, A new method for in situ determination of the roughness coefficient of the tunnel *Proceedings of the 3rd International Conference on Hydropower, Trondheim, Norway, 1997, A.A. Balkema/ Rotterdam/Brookfield/ 1997, pp 575 - 581*
- Boeriu P., Two-phase flow in long pipes, *Congress of the International Association of the Hydraulic Researchers (IAHR), Graz, 2000, Austria, 22-27 August, pg.54, Proceedings*
- Boeriu P., Environmental aspects related to energy production, *RBA Centre, TU Delft, 1993*
- Boeriu P., et all, Reservoir sedimentation: A case study, *The Scientific Bulletin of Technical University of Timisoara, Transactions on Hydro-techniques 1998, pp536 – 555.*
- Boeriu P., et all, Transport of heavy materials in long pipes, *14<sup>th</sup> International conference on Slurry Handling and Pipeline Transport, Maastricht, 8-10 September 1999, Professionals Engineering Publishing, United Kingdom, BHR Group Publication 36, pp.587-601*
- Boeriu P., Transport of heavy concentrate in open pipes, *International Conference on Transport of Solid Particles, Wroclaw, Poland, 4-7 September 2000, Proceedings.*
- Boeriu P., et all, Coping with water scarcity: A case study history from Oman, *International Conference on Management of Water Scarcity, Hurghada, Egypt, 26-28 August, 1999, Proceedings, pg 3.121- 3.131*
- Boeriu P., et all, Sea water settler plant, *International Conference on Management of Water Scarcity Hurghada, Egypt, 26-28 August, 1999, Proceedings pg 3.131- 3.137*
- Boeriu P., Capacity building in water sector in Africa: Proposal for a Nile river network, *The Learning Society and the Water Environment, International Symposium, Paris, 2 - 4 June, 1999, pg 163 – 171*
- Boeriu P., Establishment of Nile basin river network idea, *7th Nile 2002 International Conference, Cairo, Egypt, 1999*
- Boeriu P., Role of the Capacity Building in Wadi Water Resources Development, *International Conference on Wadi Hydrology, Sharm El Seik, Egypt, 2000, Proceedings*
- Boeriu P., et all, Capacity building for the Nile basin countries, *International Conference of Hydropower Association, Italy, September 2001, Proceedings*
- Boeriu P., Environmental Impact Assessment: Specific Aspects, *International Conference on Preventing and Fighting Hydrological Disasters, Timisoara, 2002, Proceedings*
- Boeriu P., et all, Regional dimension of the Dutch Egyptian Co-operation, *Seminar on Water Management development in Egypt, December 12-14, 2002, Hurghada, Egypt, Proceedings.*
- Boeriu P., Training activities in the context of Nile Basin Capacity Building Network in River Engineering, *Regional Workshop: “Establishment of the Sudan Cluster on River Morphology”, Khartoum, Sudan, 26 – 30 September 2002*
- Boeriu P., The River Engineering Fields and HRI Regional Training Centre in the context of Nile Basin Capacity Building Network for River Engineering, *Regional Workshop on Establishment of the Regional Custer in GIS and Modelling, Cairo, Egypt, 26 – 30 January 2003-04-04*
- Boeriu P., State of the art of research in the field of physical modelling, *Regional Workshop on Establishment of the Regional Custer in GIS and Modelling, Cairo, Egypt, 26 – 30 January 2003-04-04*

- Boeriu P., State of the art in the field of river structures, *Regional Workshop on: "Establishment of the Ethiopia Regional Cluster in Hydraulic Structures, Addis Ababa, Ethiopia, 3 – 6 March, 2003*
- Boeriu P., On some experimental measurements on two - phase flow in pipes, *Congress of large dams, Karlovy- Vary 1972, Czechoslovakia*
- Boeriu P., Contribution a l'hydraulique des conduites longues en regime biphase air-eau. *Scientific and Technical Bulletin of the Technical University of Timisoara, 18 (32), 1973*
- Boeriu P., On some experimental research on two-phase flow in large pipes, *Magazine: Hidrotehnica, 17(1), 1972*
- Boeriu P., Hydraulic calculation for the trash rack of a water intake. *Journal: Hidrotehnica, 31(3), 1986*
- Boeriu P., Contributions to the determination of the Darcy coefficient in pipes for a two phase flow, *Scientific and Technical Bulletin of the Technical University of Timisoara, 16 (30), 1971*
- Boeriu P., Optimal head for water supply from water tanks, *Scientific and Technical Bulletin of the Technical University of Timisoara, 25 (39), 1981*
- Boeriu P., A stochastic approach to determine the average transport distance for a road-truck in a closed curve from gravel pit, *Scientific and Technical Bulletin of the Technical University of Timisoara, 32 (46), 1987*
- Boeriu P., Diagrams to calculate head losses in long pipes, with two-phase flow, *Scientific and Technical Bulletin of the Technical University of Timisoara, 31 (45), 1986*
- Boeriu P., Determination in situ of the roughness coefficient of existing tunnels. *Scientific and Technical Bulletin of the Technical University of Timisoara, 34, (45), 1989*
- Boeriu P., Complementary research on two phase flow in long pipes, *Scientific and Technical Bulletin of the Technical University of Timisoara, 14 (39), 1972*
- Boeriu P., About Darcy coefficient calculation of pressure tunnels with two-phase flow. *First Symposium of Engineers, Timisoara, 1971, Volume 1*
- Boeriu P., The effect of air-entrainment on the head losses in large conduits. *National Symposium of Hydraulic, Bucuresti, 1969, Volume*
- Boeriu P., Optimal operation of a road-truck in a building yard. *National Symposium of Hydraulics, Timisoara, 1982, Vol.2*
- Boeriu P., Discussion on the friction stress in pipes with an air-water mixture. *National Symposium on Hydraulics, Timisoara, 1982, Vol. 3*
- Boeriu P., Equations of motion for an air-water mixture in long pipes, *National Symposium in Hydraulics, Cluj, 1974, Vol.1*
- Boeriu P., About friction losses in hydraulic tunnels, *Fluid Mechanics Colloquium, Oradea, 1988, Vol.1*
- Boeriu P., Practical aspects of the in-situ determination of the roughness coefficient of the hydraulic tunnels. *Fluid Mechanics Colloquium, Medias, 1987, Vol.1*
- Boeriu P., Quality control during construction works for concrete surfaces in hydraulic tunnels, *ICCPDC Symposium, Sibiu, 1986, Vol.1*
- Boeriu P., Problems during the construction of hydraulic tunnels. *National Symposium of Hydraulics, Iasi, Vol.1*
- Boeriu P., Hydro-electric power production versus friction losses in hydraulic tunnels. *Academic days Symposium, Timisoara, Volume.*
- Boeriu P., Considerations on the hydraulic design of water intakes. *National Symposium of Hydraulics, Resita, Volume.*

- Boeriu P., Specific hydraulics aspects related to lining of tunnels. *National Symposium on Hydraulics, Iasi, Vol.1*
- Boeriu P., Effects of the irregularity of a tunnel cross-section on the hydro-electrical energy production. *National Symposium of Modern Technology, Baile Herculane, Vol.1*
- Boeriu P., Improving tail race conditions for an existing power station. *National Symposium of Modern Technology, Baile Herculane, Vol.1*
- Boeriu P., et all, Hydraulic and Structural aspects related to aging of the Cugir hydro-power project, *Selective Book of Technical University of Timisoara.*
- Boeriu P., et all, Scale models investigations for a lateral spillway for a hydro-electric plant. *Scientific and Technical Bulletin of Politechn. Inst. of Timisoara.*
- Boeriu P., et all, Optimal shape of the training walls at a bridge contraction, *Scientific Technical Bulletin of Technical University of Timisoara , 25 (39), 1980*
- Boeriu P., et all, Special aspects of the scale model investigations for the hydraulic structures of a ,hydro-electric plant, *Scientific and Technical Bulletin of Technical University of Timisoara,25(39).*
- Boeriu P., et all, Experimental research on the distorted model of water power plant, *Scientific Technical Bulletin of Technical University of Timisoara, 25(39).*
- Boeriu P., et all, Electric analogue model investigations on the effect of a grout curtain below adjoining a lock. *Scientific and Technical Bulletin of Technical University of Timisoara, 26(40).*
- Boeriu P., et all, Hydroelectric power production aspects related to the water flow in hydraulic tunnels. *Scientific and Technical Bulletin of Technical University of Timisoara, fasc.1-2.*
- Boeriu P., et all, Electric analogue and scale model investigations for the optimisation of an intake channel. *Scientific and Technical Bulletin of Technical University of Timisoara, fasc.1-2.*
- Boeriu P., et all, Scale model investigations for a lateral spillway. *Scientific and Technical Bulletin of Technical University of Timisoara.*
- Boeriu P., et all, Scale model investigations for the trash rack at the inlet of the hydro-electric plant of the Iron Gate project on the Danube river. *National Symposium of Hydraulics, Timisoara, volume*
- Boeriu P., et all, Particular aspects of repairs to small concrete dams. *National Symposium of Hydraulics, Timisoara, volume*
- Boeriu P., et all, Spillways for rockfill dams. *National Symposium of Hydraulics, Timisoara, Volume*
- Boeriu P., et all, Considerations on the lining technology for hydraulic tunnels. *National Symposium of Hydraulics, Timisoara, Vol 1*
- Boeriu P., et all, Quality control during lining of the hydraulic tunnels. *National Symposium of Hydraulics, Resita, Vol. 1*
- Boeriu P., et all, Use of analogues and physical models for solving hydraulic engineering problems, *National Symposium of Hydraulics, Timisoara, Vol.*
- Boeriu P., et all, A method of using the stereo photogrammetry to control the shapes of hydraulic tunnels during execution. *National Symposium of Modern Technology, Baile Herculane, Volume 1*

**SELECTED BOOKS, LECTURE NOTES.**

1. Boeriu, P., River Intakes and Head works, Lecture Notes, IHE Delft, 2000
2. Boeriu, P., Physical Models, Lecture Notes, IHE Delft, 2001
3. Boeriu P., et all, Water Resources Development, Lecture Notes, IHE Delft, 1994, 106pp
4. Boeriu P., et all, Water Resources Development in River Basins, Lecture Notes, IHE Delft, 1994, 80pp.
5. Boeriu P., et all, Environmental Impact Assessment - Short course Birzeit University, June



- 1994, 231pp.
6. Boeriu P., et all, Environmental Impact Assessment - Short course Brazil, 1994, 300pp.
  7. Boeriu P., et all, Environmental Impact Assessment - Short Course, Sri Lanka, June 1992
  8. Boeriu, P., Environmental Impact Assessment, UNESCO-IHE, 2006
  9. Boeriu P., et all, Water resources development in river basins, HRI Egypt

#### **PATENTS**

- Boeriu P. & others      Determination of roughness coefficient of hydraulic tunnels using stereo photogrammetry.  
Romanian patent no. 93847/22.10.1987
- Boeriu P. & David I      Adjusting of analogical apparatus to the direct measurements of the rate of water discharge  
Romanian patent nr. 838/ 9.05.1988
- Boeriu P. & David I      Method for optimal determination of the cross-section entry in a sand filter  
Romanian patent nr. 188/ 14.14.1985

#### **Certification**

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Signature:

Date: November 2009