

CURRICULUM VITAE

VAN IMPE William

NATIONALITY : Belgian

MARITAL STATUS : Married – 3 children

ACADEMIC QUALIFICATIONS

- Civil Engineering Degree – Ghent State University, Ghent, July 1973
- Doctor Degree of Applied Sciences – Ghent State University, June 1981

CAREER

- 1/11/1973-30/9/1982 : full time research assistant of the Laboratory of Soil Mechanics, Ghent State University (appointed to Prof. E. De Beer).
- 12/6/1981 : nominated as lecturer by the Directory Board of the Ghent State University
- 1/10/1982 :
 - * Professor in the Faculty of Applied Sciences to the Ghent State University
 - * Teaching commitment of Soil Mechanics, Rock Mechanics and Foundation Engineering
 - * Managing director of the Laboratory of Soil Mechanics.
- 1 October 1988 : Professor in the Faculty of Applied Sciences of the "Catholic University Leuven" – Belgium.
- 20/9/1991 : Full professor at the Ghent University ; director of the Soil Mechanics Laboratory (now called Laboratory of Geotechnics)

INTERNATIONAL APPOINTMENTS

- Past Vice-President of the ISSMGE - Europe ; 1994-1998.
- President of the ISSMGE 2001-2005.
- First Past President of the ISSMGE 2005-2009.

PRIZES AND AWARDS

- Vienna-Terzaghi-Lecturer, (1st Austrian Baugrundtagung), Vienna Technical University – Terzaghi chair for Soil Mechanics, May 1997
- Professor Honoris Causa, Universidad Mayor de San Simon, Cochabamba, Bolivia, March 1999
- John Mitchell-Lecturer, DFI Conference, Nice, 1-4 June 2002.
- Nonveiller Lecturer, 3rd National Conference, Hvar, 2-5 October 2002.
- De Beer award, Brussels, 28 April 2004.
- Manuel Rocha award, Lissabon, 6 December 2004.
- Nagadi Endowment award, University of Mysore, India, October 2006.
- Szechy Award, University of Budapest, Hungary, 2008.

MEMBERSHIP OF MOST RELEVANT PROFESSIONAL AND SCIENTIFIC ASSOCIATIONS

- Chairman of the Belgian Geotechnical Society
- Director of the Belgian Royal Academy of Overseas Sciences (β -sciences)
- Co-chair of TC5 – Environmental Geotechnics of the ISSMGE
- Chairman of TC14 - Dredging
- Chairman of TC18 – Deep Foundations of the ISSMGE

Besides of these main activities in scientific associations, an important number of committee and board member duties on a more professional level are listed :

- Member of the "Deep Foundations Institute", New Jersey, USA
- Member of TC17 - Ground Improvement, Reinforcement and Grouting of the the ISSMGE
- Member of the AGI – Italian Geotechnical Society
- Member of TC4 – Earthquake Geotechnical Engineering of the ISSMGE
- Member of CEDA – European Dredging Association
- Member of the Flemish National Research Council
- Co-ordinator of Civil Engineering development programs for the Ghent University (Rwanda, Bolivia...)
- Member of the Editorial Board, Journal "Ground Improvement", published by Thomas Telford Services Ltd.
- President of "Fund and Award E. De Beer", as delegate of the Belgian Society for Soil Mechanics and Geotechnical Engineering
- Member of the scientific committee BACAS for education and research in engineering.
- Founding member of the Journal "Ground Improvement", New York
- Peer review committee member :
 - Ground Improvement Journal
 - ASCE Journal of Geotechnical and Geoenvironmental Engineering
 - International Journal of Geoengineering Case Histories

SCIENTIFIC BOARD MEMBER OF CONFERENCE PROGRAMS

- March 1995 : Luso-Brazilian Seminar on Environmental Geotechnics, Lisbon, Portugal
- September 1995 : 10th Danube European Conference on Soil Mechanics and Foundation Engineering, Constantza, Romania
- March-April 1996 : 3rd International Congress on Environmental Geotechnics, Lissabon, Portugal
- November 1996 : 2nd International Congress on Environmental Geotechnics - IS-OSAKA '96, Osaka, Japan
- December 1996 : 3rd International Conference on Environmental Geotechnics, Lissabon, Portugal
- September 1997 : XIVth International Congress on Soil Mechanics and Foundation Engineering, Hamburg, Germany
- 1998 : 3rd International Congress on Environmental Geotechnics, Lisbon, Portugal
- June 1999 : 12th European Conference on Soil Mechanics and Foundation Engineering, Amsterdam.
- August 2001 : 15th International Conference on Soil Mechanics and Geotechnical Engineering, Istanbul, Turkey
- December 2001 : 3rd International Conference on Soft Soil Engineering, Hong Kong
- June 2002 : Ghent
- August 2002 : 4th International Congress on Environmental Geotechnics, Rio de Janeiro, Brazil
- November 2002 : Johannesburg
- June 2003 : 4th International Geotechnical Seminar on Deep Foundations on Bored and Auger Piles, Ghent
- August 2003 : 13th European Conference on Soil Mechanics and Geotechnical Engineering, Prague.
- February 2004 : 9th Australia New Zealand Conference on Geomechanics, Auckland.
- July 2004 : 3rd Pan-American Congress, San José, Costa Rica.
- January 2005 : Geo-Frontiers, Austin.
- September 2005 : 16th International Conference on Soil Mechanics and Geotechnical Engineering, Osaka.
- March 2006, Geotechnical Symposium honouring Prof. Tatsuoka, Roma, Italy.

RESEARCH ACTIVITIES

Prof. W. Van Impe has been concentrating over the past 25 years mainly on 4 topics :

- Ground improvement methods with special emphasis to dynamic compaction techniques
- Deep foundations with special emphasis to screw piles ; it has resulted in the organisation of four International Conferences in Ghent (BAPI 1988 – BAPII 1993 – BAPIII 1998 – BAPIV 2003)
- Environmental geotechnics with special emphasis on waste mechanics and underwater geo-environmental issues.
- Lateral loading of pile groups resulting in a book in co-authorship met Prof. L. Reese, Texas, USA.

Moreover the research guided in the Laboratory of Geotechnics under the directorship of Prof. W. Van Impe is focussing (in addition to the former topics) on :

- Seismic cone testing
- Small strain laboratory testing
- Geoenvironmental barrier design
- Soft soil tunneling
- Dredging geotechnology
- Soft soil improvement and large strain consolidation
- Contaminant flow through porous media

INTERNATIONAL SCIENTIFIC COOPERATION

Since 1983 Prof. W. Van Impe has been guest lecturer in more than 30 universities all over the world. Moreover close cooperation on common research topics has been established with colleagues and university institutes in more than 27 countries.

CONSULTING

Prof. W. Van Impe has been involved in a considerable number of geotechnical engineering projects all over the world, with some of the most relevant :

- Screw pile deficiencies in Porta Marghera, Italy
- Prefabricated pretensioned concrete piles against liquefaction - Takechi Piling, Japan
- El Ferdan bridge foundation piers, Egypt – Besix Company
- Geotechnical dredging issues for Tshak Lap Kok airport, Hong-Kong – Dredging International
- Geotechnical dredging issues for man made islands (Jurong), Singapore – Dredging International
- Tunnelling under Orly airport, Paris, France – Smet Company
- Remediation of contaminated sites – Venice port – SGI, Torino, Italy
- Stability problems of large decantation ponds at Couillet (Solvay) and at Ghent - Rhodia Chemie Company.

- Besides of above mentioned major projects, consulting work has been undertaken in many cases on deep foundations all over the world, such as bored pile design, deep excavation stability, specific screw pile applications etc...
- Lateral loading of piles; analysis of many case studies in the US
- Quay walls in harbour of Dunquerque – France
- Liquefaction problems in offshore conditions at Damietta harbour Egypt
- Underwater dam in the harbour of Antwerp - Belgium
- Messina strait bridge – foundation engineering concepts – Italy.
- Tunneling in soft underconsolidated clays – Russia.

CONFERENCES

In addition to the usual presenting of papers, Prof. W. Van Impe has been involved in an active role as invited or key-speaker, session chairman, discussion leader or panellist in over 80 major conferences all over the world.

INVENTIONS/PATENTS

- Japanese patent on a pile type against earthquakes – patent nr. 2791361.
- European patent on Ω -screw pile type.

PUBLICATIONS

Books – "Author"

- Soil Improvement Techniques and their evolution.
(in English and Chinese)
Pages : 125
(Balkema A., Rotterdam, The Netherlands, 1989).
- Single Piles and Piles Groups under lateral loading (in co-authorship with L. C. Reese)
Pages : 463
(Balkema A., Rotterdam, The Netherlands, 2001).
- The overview of almost two decades of full scale research on screw piles.
Pages : 201.
(Ghent, April 2004).
- Underwater dam on very soft soils.
To be published end of 2006 (in English and Russian).

Editor of Conference Proceedings

- Proceedings of the 2nd International Symposium on Numerical Models in Geomechanics, Ghent, 31/3/1986-4/4/1986 NUMOG II.
Pages : 906.
Publisher : M. Jackson & Son, Ltd., Cornwall, U.K.
- Proceedings of the 1st International Geotechnical Seminar : Deep Foundations on Bored and Auger Piles, Ghent, 7/6/1988-10/6/1988 BAP I.
Pages : 603.
Publisher : Balkema A., Rotterdam, The Netherlands.
- Proceedings of the 2nd International Geotechnical Seminar : Deep Foundations on Bored and Auger Piles, Ghent, 1/6/1993-4/6/1993 BAP II. Pages : 475.
Publisher : Balkema A., Rotterdam, The Netherlands.
- Proceedings of the 3rd International Geotechnical Seminar : Deep Foundations on Bored and Auger Piles, Ghent, 19/10/1998-21/10/1998 BAP III. Pages : 526.
Publisher : Balkema A., Rotterdam, The Netherlands.
- Proceedings of the 4th International Geotechnical Seminar : Deep Foundations on Bored and Auger Piles, Ghent, 2/6/03 till 4/06/03 ; BAP IV Pages 419.
Publisher Millpress Rotterdam, The Netherlands.

Chapters in books/author

- Interpretatie van cyclische belastingsproeven op zand. Huldeboek em. Prof. E. De Beer, oktober 1982, pp. 273-279.
- Stability analysis of tailings dams for a large containment basin. Huldeboek De Mello.
- Wegwijs Wonen - Grondonderzoek en Funderingen. KUL, 1993.

Sole author papers

100 internationally distributed papers.

Joint papers

120 internationally distributed papers.

OTHER INTERESTS

- Opera and classical music
History ; social and political.

ISSUES OF EXPERTISES

- 1) Environmental geotechnics
- 2) Deep foundations
- 3) Soft soil parameters
- 4) Soil improvement
- 5) Stability problems in geotechnics