

PETER K. ROBERTSON
Technical Advisor, Gregg Drilling & Testing Inc.
Professor (retired), University of Alberta

SUMMARY INFORMATION

EDUCATION

B.Sc.	(Civil Engineering)	Nottingham University, England	1972
M.A.Sc.	(Geotechnical Eng.)	University of British Columbia	1975
Ph.D.	(Geotechnical Eng.)	University of British Columbia	1983

EMPLOYMENT RECORD

1972-1973	Engineer, Sir William Halcrow & Partners, London, UK
1973-1975	M.A.Sc. Graduate Studies, University of British Columbia
1975-1977	Project Engineer, Golder Associates, Vancouver
1977-1980	Chief Engineer, Fugro (Hong Kong) Ltd.
1980-1983	Ph.D., Research Assistant, University of British Columbia
1983-1988	NSERC University Research Fellow, University of British Columbia
1987-1988	Visiting Scholar, SGI, Milan, and Research Fellow, Univ. Turin, Italy
1988-2007	Professor of Civil Engineering, University of Alberta
1995-1999	Associate Dean (Research & Planning), Faculty of Engineering,
1999-2005	Associate Vice President (Research/Industry Relations),
2004-2005	CEO, TEC Edmonton, University of Alberta/City of Edmonton
2005-present	Technical Advisor, Gregg Drilling & Testing Inc., California
2005-present	Private consultant

HONOURS AND AWARDS

1981-83	Killam Predoctoral Fellowship, University of British Columbia
1983-88	NSERC University Research Fellowship, University of British Columbia
1985	Colloquium, Canadian Geotechnical Society
1993	Honorary Research Professor, Central Research Institute of Building and Construction, Ministry of Metallurgical Industry, Beijing, China
1996-97	Killam Annual Professorship, University of Alberta
1997	Cross Canada Lecture Tour, Canadian Geotechnical Society
1998	Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA) Project Achievement Award – CANLEX Project
1999	R.M. Quigley Award, Canadian Geotechnical Society (best paper)
2000	Fellow, Engineering Institute of Canada
2002	Stan Thompson Service Award, Geotechnical Society of Edmonton
2006	R.M. Quigley Award, Canadian Geotechnical Society (best paper)
2010	R.M. Quigley Award, Canadian Geotechnical Society (best paper)

2012 J.K. Mitchell Lecture, ISC'4, Brazil
2014 H. Bolton Seed Medal, ASCE
2017 R.M. Quigley Award, Canadian Geotechnical Society (best paper)
2018 Lymon C. Reese Lecture, Austin, Texas

PROFESSIONAL AFFILIATIONS

Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA)
Canadian Geotechnical Society (CGS)
Engineering Institute of Canada (EIC) - Fellow
International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE)

PROFESSIONAL ACTIVITIES

Chair, Vancouver Geotechnical Society, 1984-85
Director, ConeTec Investigations Ltd., 1984-2004
Chair, Edmonton Geotechnical Society, 1989-90
Member, Canadian Standards Committee on Foundations, 1989-92
Member, ISSMGE, Technical Committee TC 10, 1990-94
Member, ISSMGE, Technical Committee TC 24, 1990-94
Member, Canadian Geotechnical Society Editorial Committee for Foundation Manual
Editorial Board, Geotechnical Journal, American Society of Civil Engineers, 1996
Vice Chair, Soil Mechanics Division, Canadian Geotechnical Society, 1994-98
Chair, Organizing Committee, 1st Int. Conf. on Site Characterization, ISC'98, 1998
Chair, Technical Committee 16, ISSMGE, 1990-99
Associate Editor, Canadian Geotechnical Journal, 1998
Director, InnoCentre Alberta Business Development Services, 2000-2003
Director, Science Alberta Foundation, 2001-2004
Director, Scanimetrics, 2000-2006

Reviewer:

Journals

Canadian Geotechnical Journal; American Society of Civil Engineers - Geotechnical Journal; American Standards Testing Methods Journal; Soils and Foundations Journal (Japan); Geotechnique (UK); Transportation Research Board (USA).

Proposals

Natural Science and Engineering Research Council (NSERC); National Research Foundation (USA); Australian Research Council; New Zealand Research, Science & Technology Foundation; Hong Kong University Grants Committee; US Corps of Engineers (USA), ISRIP Alberta Innovation and Science.

ACADEMIC ACTIVITIES

Executive Committee, Department of Civil Engineering, U of A, 1990-95
Chair, Curriculum Review Committee, Department of Civil Engineering, 1993-94

Member, Faculty Evaluation Committee, U of A, 1991-92
Graduate Student Committee, Department of Civil Engineering, 1993-95
Infrastructure Committee, Department of Civil Engineering, 1990-1994
Publicity Committee, Department of Civil Engineering, 1990-92
Selection Committee for Chair of Civil Engineering Department, 1994
Chair, Task Force on Instructional Technology, Faculty of Engineering, 1996-97
Chair, Task Force on Career Development, Faculty of Engineering, 1996-97
Chair, Task Force on Graduate Student Affairs, Faculty of Engineering, 1996-97
Chair, Task Force on Personal and Mobile Computing, University of Alberta, 1996-97
Interim Director, Canadian Construction Research Institute (CCRI), 1997-98
Associate Dean (Research and Planning), Faculty of Engineering, (1995–99)
Member, Academic Tech. and Learning Advisory Committee (ATLAC, 1995-99)
Member, Learning Support Systems Advisory Committee (LSSAC, 1995-99)
Member, Task Force on Teaching and Learning (1998-99)
Member, Task Force on Indirect Costs
Member, University Research Policy Committee (URPC)
Member, Research Overview Committee

RESEARCH GRANTS & CONTRACTS

Over **\$3.0 million** in research grants and contracts at the University of Alberta.
Principle Investigator for the Canadian Liquefaction Experiment (CANLEX, 1993-97) that was the largest geotechnical collaborative research project in Canada.

Main areas of research activities: in-situ testing of soils, earthquake design of geotechnical structures, soil liquefaction, pile design and soil structure interaction.

Recognized as an expert both nationally and internationally in the areas of in-situ testing and soil liquefaction.

SOFTWARE

Co-developer of two commercial, low cost computer software programs (*CPeT-IT & CLiq*) in collaboration with Geologismiki (Greece) (<http://www.geologismiki.gr/>).

GRADUATE STUDENT SUPERVISION

Joint supervision of **8 M.Sc.** students at UBC from 1983 to 1988.

A total of **7 M.Eng.**, **12 M.Sc.** and **20 Ph.D.** students since 1988 at the University of Alberta.

PUBLICATIONS

Summary: 270 Publications

- 1 Book
- 6 Chapters in Books
- 5 Engineering Design Manuals and Guides
- 89 Refereed Journal publications
- 152 Other refereed contributions
- 20 Non-refereed contributions

TEACHING

Extensive teaching experience at both the undergraduate and graduate level.

Undergraduate Courses

- First Year Engineering Statics
- Introduction to Soil Mechanics
- Foundation design
- Geotechnical Engineering

Graduate Courses

- Site Investigation
- Advanced Soil Mechanics
- Advanced Foundation Engineering
- Numerical Methods
- Stress Strain models

SHORT COURSES AND WEBINARS

Presented over **100 short courses** in North, Central and South America, Asia, Europe, Australia and New Zealand on topics related to in-situ testing, soil liquefaction and geotechnical/geo-environmental engineering. Presented a series of (~16) **free webinars** on the CPT that are also available free online and some have been viewed more than 1,000 times (<http://www.greggdrilling.com/webinars>)

INVITED & KEYNOTE PRESENTATIONS

Invited speaker at **30 major Conferences** (national and international) or workshops.

Invited presentations at over **100 meetings** of local engineering societies, graduate student seminars, conferences, seminars, etc.

CONSULTING

Consultant to various industrial clients and insurance companies in North/South America, Asia, Middle-east and Europe for projects involving: liquefaction evaluation for major structures, ground improvement, stability of onshore and offshore structures, deep foundations and use and interpretation of in-situ tests.

PUBLICATIONS (Detailed List)

BOOKS

1. Lunne, T., Robertson, P.K. and Powell, J.J.M., 1997, "Cone Penetration Testing in Geotechnical Practice", Blackie Academic/Chapman & Hall, E&FN Spon, 312 pages, 3rd printing

CHAPTERS IN BOOKS

1. Campanella, R.G., P.K. Robertson, *Four (4) chapters* on In-situ testing for new edition of reference manual, "Subsurface Exploration and Sampling of Soils for Civil Engineering Purposes", by Hvorslev, commissioned by Engineering Foundation, United Engineering Center, New York, pgs. 280, 1985.
2. Luternauer, J.L., Barrie, J.V., Christian, H.A., Clague, J.J., Evoy, R.W., Hart, B.S., Hunter, J.A., Killeen, P.G., Kostaschuk, R.A., Mathewes, R.W., Monahan, P.A., Moslow, T.F., Mwenifumbo, C.J., Olynyk, H.W., Patterson, R.W., Pullan, S.E., Roberts, M.C., Robertson, P.K., Tarbotton, M.R. and Woeller, D.J., Fraser River Delta: Geology, Geohazards and Human Impact. *Chapter In: Handbook of Lower Mainland Geoscience*, Geological Survey of Canada, 1994.
3. Robertson, P.K., Liquefaction Induced Landslides. *Chapter 4, Rapid Landslides - Prediction of Initiation and Motion*, Elsevier Science Company, 1996.

ENGINEERING MANUALS AND GUIDES

1. Robertson, P.K. and R.G. Campanella, "Guidelines for Use and Interpretation of the Electric Cone Penetration Test", 1st and 2nd Edition, Soil Mechanics Series No. 69, 1983, 176p.
2. Robertson, P.K., "Guidelines for Electric Cone Penetration Test", Prepared for Fugro Consultants International, Holland, Sept. 1983, 150p.
3. Robertson, P.K., and R.G. Campanella, "Design Manual for Use of CPT and CPTU", Pennsylvania Department of Transportation (PennDot), 200p, 1988
4. Robertson, P.K. and Cabal, K.L., "Guide to Cone Penetration Testing for Geotechnical Engineering", 6th Edition, 2014, 145 p. Free online, available from several websites, e.g <http://www.cpt-robertson.com/publications>; <http://www.greggdrilling.com/technical-guides>.
5. Robertson, P.K. and Cabal, K.L., "Guide to Cone Penetration Testing for Geoenvironmental Engineering", 2008, 2nd Edition, 84 p.

REFEREED JOURNAL PUBLICATIONS

1. Vaid, Y.P., P.K. Robertson and R.G. Campanella, "Strain Rate Behaviour of Saint-Jean Vianney Clay", Canadian Geotechnical Journal, Vol. 16, No. 1, 1979, pp. 34-42.
2. Sweeney, D.J. and P.K. Robertson, "A Fundamental Approach to Slope Stability Problems in Hong Kong", Hong Kong Engineer, October 1979, pp. 35-44
3. Sweeney, D.J. and P.K. Robertson, "Slope Stability in Residual Soils in Hong Kong", Canadian Geotechnical Journal, Vol. 19, No. 4, 1982, pp. 521-525.
4. Campanella, R.G., P.K. Robertson and D. Gillespie, "Cone Penetration Testing in Deltaic Soils", Canadian Geotechnical Journal, Vol. 20, No. 1, 1983, pp. 23-35.
5. Robertson, P.K. and R.G. Campanella, "Interpretation of Cone Penetration Tests - Part I (Sand)", Canadian Geotechnical Journal, Vol. 20, No. 4, 1983, pp. 718-733.
6. Robertson, P.K. and R.G. Campanella, "Interpretation of Cone Penetration Tests - Part II (Clay)", Canadian Geotechnical Journal, Vol. 20, No. 4, 1983, pp. 734-745.
7. Robertson, P.K., R.G. Campanella and A. Wightman, "SPT-CPT Correlations", Journal of Geotechnical Division of ASCE, Vol. 109, 1983, pp. 1449-1459.
8. Robertson, P.K., J.M.O. Hughes, R.G. Campanella and A. Sy, "Design of Laterally Loaded Displacement Piles using a Driven Pressuremeter", ASTM, STP-835, Laterally Loaded Piles and Pile Groups, 1983, pp. 229-238.
9. Campanella, R.G., P.K. Robertson, E.J. Klohn and D. Gillespie, "Piezometer-Friction Cone Investigation at a Tailings Dam", Canadian Geotechnical Journal, Vol. 21, No. 3, 1984, pp. 551-562.
10. Robertson, P.K. and R.G. Campanella, "Liquefaction Potential of Sands using the Cone Penetration Test", Journal of Geotechnical Division of ASCE, March 1985, Vol. III, No. 3, pp. 384-406.
11. Hughes, J.M.O. and P.K. Robertson, "Full Displacement Pressuremeter Testing in Sand", Canadian Geotechnical Journal, August, 1985, Vol. 22, No. 3, pp. 298-307.
12. Robertson, P.K., R.G. Campanella, P.T. Brown, I. Grof and J.M.O. Hughes, "Design of Axially and Laterally Loaded Piles using In-Situ Tests: A Case History", Canadian Geotechnical Journal, Vol. 22, No. 4, 1985, pp. 518-527.
13. Robertson, P.K., "In-situ Testing and its Application to Foundation Engineering", Invited colloquium for 1985 Canadian Geotechnical Conference, Canadian Geotechnical Journal No. 23, Nov. 1986, pp. 573-594.
14. Robertson, P.K., R.G. Campanella, D. Gillespie and A. Rice, "Seismic CPT to Measure In-situ Shear Wave Velocity", Journal of Geotechnical Engineering, ASCE, Vol. 112, No. 8, pp. 791-803, 1986.
15. Robertson, P.K., and R.G. Campanella, "Liquefaction Potential of Sands using the DMT", ASTM, Geot. Div. Technical Note, March, 1986, 10p.
16. Campanella, R.G., Robertson, P.K., Gillespie, D., Laing, N. and Kurfurst, P.J., "Seismic cone penetration testing in the near offshore of the MacKenzie Delta", Canadian Geotechnical Journal, Vol. 24, No. 1, 1987, pp. 154-159.
17. Robertson, P.K., R.G. Campanella, P.T. Brown and K.E. Robinson, "Prediction of Wick Drain and Preload Performance Using Piezometer Cone Data", Canadian Geotechnical Journal, Vol. 25, No. 2, 1988, pp. 56-61.

18. Robertson, P.K. and W.F. Van Impe, "Cone Penetration Testing with Pore Pressure Measurements", Invited paper for Belgisch Comité voor Ingenieursgeologie, B.C.I.G., Belgium, 1987, December.
19. Gillespie, D., Robertson, P. and Campanella, R.G., Discussion on "Consolidation After Undrained Piezocone Penetration. I: Prediction", ASCE Geotechnical Journal, Vol. 114, No. 1, Jan. 1988, pp. 126-128.
20. Robertson, P.K., M.P. Davies and R.G. Campanella, "Design of Laterally Loaded Driven Piles Using the Flat Plate Dilatometer", ASTM, Geotechnical Testing Journal, Vol. 12, No. 1, March 1989, 29p.
21. Sully, J.P., R.G. Campanella and P.K. Robertson, "Overconsolidation of Clays from Penetration Pore Pressures", Journal of Geotechnical Engineering, ASCE, Vol. 114, No. 2, February, 1988, pp. 209-215.
22. Robertson, P.K., J.A. Howie, J.P. Sully, D. Gillespie and R.G. Campanella, Discussion about "Preconsolidation Pressure from Piezocone Tests in Marine Clays", Canadian Geotechnical Journal, Vol. 25, No. 3, 1988.
23. Withers, N.J., J. Howie, J.M.O. Hughes and P.K. Robertson, "The Performance and Analysis of Cone Pressuremeter Tests in Sands", Geotechnique, 1989, Vol. XXXIX, No. 3, pp. 433-454.
24. Bellotti, R., V. Ghionna, M. Jamiolkowski, P.K. Robertson and R.W. Peterson, "Interpretation of Moduli from Self-boring Pressuremeter Tests in Sand", Geotechnique, 1989, Vol. XXXIX, No. 2, pp. 269-292.
25. Campanella, R.G. and P.K. Robertson, "Development and Use of a Research DMT", Canadian Geotechnical Journal, 1991, Vol. 28, No. 1, pp. 113-126.
26. Robertson, P.K., Woeller, D.J. and Gillespie, D., "Evaluation of Excess Pore Pressures and Drainage Conditions Around Driven Piles using the CPTU", Canadian Geotechnical Journal, Vol. 27, pp. 249-254, 1990.
27. Robertson, P.K., "Soil Classification using the CPT", Canadian Geotechnical Journal, Vol. 27, No. 1, Feb. 1990, pp. 151-158.
28. Robertson, P.K. and Woeller, D.J. and Finn, W.D.L., 1992, "Seismic Cone Penetration Test for Evaluating Liquefaction Potential", Canadian Geotechnical Journal, Vol. 29, No. 4, August, pp. 686-695.
29. Robertson, P.K., Sully, J., Woeller, D.J., Lunne, T., Powell, J.J.M., and Gillespie, D.J., "Guidelines for Estimating Consolidation Parameters in Soils from Piezocone Tests", Canadian Geotechnical Journal, Vol. 29, No. 4, August 1992, pp. 539-550.
30. Robertson, P.K., Woeller, D.J. and Addo, K.O., 1992, "SPT Energy measurements using a PC Based System", Canadian Geotechnical Journal, Vol. 29, No. 4, August, pp. 551-557.
31. Treen, C.T., Robertson, P.K. and Woeller, D.J., 1992, "Cone Penetration Testing in Stiff Soils Using a Downhole Cone Penetrometer", Canadian Geotechnical Journal, Vol. 29, No. 3, June, pp. 448-455.
32. Addo, K. and Robertson, P.K., 1992, "Shear Wave Velocity Measurements Using Rayleigh Surface Wave", Canadian Geotechnical Journal, Vol. 29, No. 4, August, pp. 558-568.

33. Gu, W.H., Morgenstern, N.R. and Robertson, P.K., 1993. "Progressive Failure of the Lower San Fernando Dam", ASCE Geotechnical Journal, Feb., Vol. 119, No. 2, pp. 333-351.
34. Robertson, P.K., 1991, "Field Testing in Engineering Geology", A Book Review for Canadian Geotechnical Journal, Vol. 28, No. 3, pp. 474-475.
35. Gu, W.H., Morgenstern, N.R. and Robertson, P.K., 1994, "Post-earthquake Deformation Analysis of Wildlife Site", ASCE Geotechnical Journal, Vol. 120, No. 2, pp. 274-289.
36. Ferreira, R.S. and Robertson, P.K., 1992, "Interpretation of Undrained Self-boring Pressuremeter Test Results Incorporating Unloading", Canadian Geotechnical Journal, 29: 918-928.
37. Ferreira, R.S. and Robertson, P.K., 1994. "Large Strain Undrained Pressuremeter Interpretation Based on Loading and Unloading Data", Canadian Geotechnical Journal, 31: 71-788.
38. Sasitharan, S., Robertson, P.K. and Segoo, D.C., 1994. "Sample Disturbance from Shear Wave Velocity Measurements", Canadian Geotechnical Journal, 31: 119-124.
39. Sasitharan, S., Robertson, P.K., Segoo, D.C. and Morgenstern, N.R., 1993. "Collapse Behavior of Sand", Canadian Geotechnical Journal, 30: 569-577.
40. Sasitharan, S., Robertson, P.K., Segoo, D.C. and Morgenstern, N.R., 1994. "A State Boundary Surface for Very Loose Sand and Its Practical Implications", Canadian Geotechnical Journal, 31: 321-334.
41. Pitman, T.D., Robertson, P.K., Segoo, D.C., 1994. "Influence of Fines on the Collapse of Loose Sands", Canadian Geotechnical Journal, 31: 728-739.
42. Robertson, P.K. Sasitharan, S., Cunning, J., and Segoo, D.C., 1995. "Shear Wave Velocity to Evaluate In-situ State of Ottawa Sand", Journal of Geotechnical Engineering, ASCE, Vol. 121, No. 3, pp. 262-273.
43. Skopek, P., Morgenstern, N.R., Robertson, P.K., and Segoo, D.C., 1994. Collapse of Dry Sand. Canadian Geotechnical Journal, Vol. 31, No. 6.
44. Rajani, B.B., Robertson, P.K., and Morgenstern, N.R., 1995. Simplified Design Methods for Pipelines Subject to Transverse and Longitudinal Soil Movements. Canadian Geotechnical Journal, Vol. 32, No. 2, pp. 309-323.
45. Segoo, D.C., Robertson, P.K., Sasitharan, S., Kilpatrick, B.I., and Pillai, V.S., 1994. Ground Freezing and Sampling of Foundation Soils at Duncan Dam. Canadian Geotechnical Journal, 31: 5.
46. Sasitharan, S., Robertson, P.K., Segoo, D.C. and Morgenstern, N.R., 1994. Collapse Behavior of Sand: Canadian Geotechnical Journal, Discussion.
47. Robertson, P.K., Woeller, D.J. and Addo, K., 1993. Standard Penetration Test Energy Measurements using a system based on the personal computer, Reply, Vol. 30: 883-884.
48. Fear, C.E. and Robertson, P.K., 1995. Estimating the Undrained Strength of Sand: A Theoretical Framework. Canadian Geotechnical Journal, October, Vol 32, No. 4.
49. Cunning, J.C., Robertson, P.K., and Segoo, D.C., 1995. Shear Wave Velocity to Evaluate IN-Situ State of Cohesionless Sands. Canadian Geotechnical Journal, October, Vol. 32, No. 4.
50. Christian, H.A., Woeller, D.J., Robertson, P.K., Courtney, R.C. Site investigations to evaluate flow liquefaction slides at Sand Heads, Fraser River delta. Canadian

- Geotechnical Journal, Vol. 34, No. 3, 1997, pp. 384-397.
51. Ayoubian, A. and Robertson, P.K., 1997. Void Ratio Redistribution in Undrained Triaxial Extension Tests on Ottawa Sand, Canadian Geotechnical Journal, Vol. 35, No. 2, pp. 351-359.
 52. Chillarige, A.V., Morgenstern, N.R., Robertson, P.K. and Christian, H.A., 1997. Seabed Instability due to Flow Liquefaction in the Fraser River Delta. Canadian Geotechnical Journal, Vol. 34, No. 4, 1997, pp. 520-533.
 53. Chillarige, A.V., Robertson, P.K., Morgenstern, N.R. and Christian, H.A., 1997. Evaluation of In-Situ State of Fraser River Sand. Canadian Geotechnical Journal, Vol. 34, No. 4, 1997, pp. 510-519.
 54. *Robertson, P.K. and Wride, C.E., 1998. Evaluating Cyclic Liquefaction Potential using the CPT, Canadian Geotechnical Journal, Vol. 35, No. 3.
 55. Robertson, P.K., (Fear) Wride, C.E., List, B.R., Atukorala, U., Biggar, K.W., Byrne, P.M., Campanella, R.G., Cathro, D.C., Chan, D.H., Czajewski, K., Finn, W.D.L., Gu, W.H., Hammamji, Y., Hofmann, B.A., Howie, J.A., Hughes, J., Imrie, A.S., Konrad, J.-M., Küpper, A., Law, T., Lord, E.R.F., Monahan, P.A., Morgenstern, N.R., Phillips, R., Piché, Plewes, H.D., Scott, D., Sego, D.C., Sobkowicz, J., Stewart, R.A., Tan, S., Vaid, Y.P., Watts, B.D., Woeller, D.J., Youd, T.L., and Zavodni, Z., The CANLEX Project: Summary and Conclusions. Canadian Geotechnical Journal, 2000, Vol. 37, No. 3, June, pp. 499-504
 56. Byrne, P.M., Puebla, H., Chan, D.H., Soroush, A., Morgenstern, N.R., Cathro, D.C., Gu, W.H., Phillips, R., Robertson, P.K., Hofmann, B.A., (Fear) Wride, C.E., Sego, D.C., Plewes, H.P., List, B.R. and Tan, S. CANLEX Full-Scale Experiment and Modelling. Canadian Geotechnical Journal, 2000, Vol. 37, No. 3, June, pp. 543-562
 57. (Fear) Wride, C.E., Hofmann, B.A., Sego, D.C., Plewes, H.D., Konrad, J.-M., Biggar, K.W., Robertson, P.K., and Monahan, P.A. Ground sampling program at the CANLEX test sites. Canadian Geotechnical Journal, 2000, Vol. 37, No. 3, June, pp. 530-542
 58. (Fear) Wride, C.E., Robertson, P.K., Biggar, K.W., Campanella, R.G., Hofmann, B.A., Hughes, J.M.O., Küpper, A., and Woeller, D.J. In-Situ testing program at the CANLEX test sites. Canadian Geotechnical Journal, 2000, Vol. 37, No. 3, June, pp. 505-529
 59. Robertson, P.K., (Fear) Wride, C.E., List, B.R., Atukorala, U., Biggar, K.W., Byrne, P.M., Campanella, R.G., Cathro, D.C., Chan, D.H., Czajewski, K., Finn, W.D.L., Gu, W.H., Hammamji, Y., Hofmann, B.A., Howie, J.A., Hughes, J., Imrie, A.S., Konrad, J.-M., Küpper, A., Law, T., Lord, E.R.F., Monahan, P.A., Morgenstern, N.R., Phillips, R., Piché, Plewes, H.D., Scott, D., Sego, D.C., Sobkowicz, J., Stewart, R.A., Tan, S., Vaid, Y.P., Watts, B.D., Woeller, D.J., Youd, T.L., and Zavodni, Z. The Canadian Liquefaction Experiment: An Overview. Canadian Geotechnical Journal, 2000, Vol. 37, No. 3, June, pp. 499-504
 60. Sully, J.P., Robertson, P.K., Campanella, R.G. and Woeller, D.J., 1999. Evaluation of Field CPTU Dissipation Data in Overconsolidated Fine-Grained Soils. Canadian Geotechnical Journal, August.
 61. Yoshimine, M., Robertson, P.K., and Wride, C.E., 1999. Undrained shear strength of clean sands. Canadian Geotechnical Journal, Vol. 36, No. 5, Oct., pp.891-906
 62. Wride, C.E., McRoberts, E.C. and Robertson, P.K., 1999. Reconsideration of Case

- Histories for Estimating Undrained Shear Strength in Sandy Soils, Canadian Geotechnical Journal, Vol. 36, No. 5, Oct. pp. 907-933
63. Mahmoud, Woeller and Robertson, 2000. Detection of shear zones in a natural clay slope using the cone penetration test and continuous dynamic sampling. Canadian Geotechnical Journal, Vol. 37, No. 3, June, pp. 652-661.
 64. Grozic, J.L.H., Robertson, P.K. and Morgenstern, N.R., 2000. Cyclic Liquefaction of loose gassy sand. Canadian Geotechnical Journal, Vol. 37, No. 4, August, pp. 843-856.
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 66. Wride, C.E., McRoberts, E.C. and Robertson, P.K., 1999. Reconsideration of Case Histories for Estimating Undrained Shear Strength in Sandy Soils, Canadian Geotechnical Journal, August, Vol. 36, No. 5, Oct., pp. 907-933.
 67. Robertson, P.K. and Wride, C.E., 2000, Evaluation cyclic liquefaction potential using the cone penetration test: Discussion Reply. Canadian Geotechnical Journal, Vol. 37, No. 1, Jan., pp. 272-273.
 68. Hoffman, B.A., Sego, D.C. and Robertson, P.K., 2000. In-Situ Ground Freezing to Obtain Undisturbed Samples of Loose Sand for Liquefaction Assessment. ASCE Journal of Geotechnical and Geoenvironmental Engineering, 126 (11): 979-989.
 69. Grozic, J.L.H., Lefebvre, M.E., Robertson, P.K. and Morgenstern, N.R., 2000. Using time domain reflectometry in triaxial testing. Canadian Geotechnical Journal, May, 2000.
 70. Youd et al. (20 co-authors), 2001, Liquefaction Resistance of Soils: Summary Report from the 1996 NCEER and 1998 NCEER/NSF Workshops on Evaluation of Liquefaction Resistance of Soils, ASCE Journal of Geotechnical and Geoenvironmental Engineering, , Vol. 127, No 4. pp 297-313.
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 74. Zhang, G., Robertson, P.K. and Brachman, R.W.I., 2002, Estimating Liquefaction induced Ground Settlements from CPT for Level Ground, Canadian Geotechnical Journal, 39(5): 1168-1180
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131. Robertson, P.K., 1999. Estimation of Minimum Undrained Shear Strength for Flow Liquefaction using the CPT. Second International Conference on Earthquake Geotechnical Engineering, Lisboa, June 21-25, 1999.
132. Elkated, T., R.G. Chalaturnyk and Robertson, P.K., 2000. Quantifying Soil Heterogeneity. 53rd Canadian Geotechnical Conference, Montreal.
133. Zhang, G., Robertson, P.K. and Brachman, R.W.I., 2000. Application of a CPT-based Method to estimate liquefaction induced ground settlements. 53rd Canadian Geotechnical Conference, Montreal.
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142. Robertson, P.K. 2004. "Evaluating soil liquefaction and post-earthquake deformations using the CPT". Keynote Lecture at International Conference on Geotechnical and Geophysical Site Characterization, ISC-2, Porto, Portugal.
143. Robertson, P.K. 2009. "Performance based earthquake design using the CPT". Keynote Lecture at International Conference on Performance-based design in Earthquake Geotechnical Engineering, IS Tokyo, Tsukuba, Japan.
144. Robertson, P.K. and Shao Lisheng, 2010, "Estimation of Seismic Compression in dry soils using the CPT", 5th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics and Symposium in Honor of Professor I.M. Idriss, San Diego, CA, May 24-29, 2010
145. Boggess, R, and Robertson, P.K., 2010, "CPT for soft sediments and deepwater investigations", 2nd International Symposium on Cone Penetration Testing, Huntington Beach, CA, Vol.2. pp 127-135
146. Robertson, P.K. and Cabal, K, L., 2010, "Estimating soil Unit Weight from CPT", 2nd International Symposium on Cone Penetration Testing, Huntington Beach, CA, Vol.2. pp 447-454
147. Robertson, P.K., 2010, "Estimating in-situ soil permeability from CPT and CPTu", 2nd International Symposium on Cone Penetration Testing, Huntington Beach, CA, Vol.2. pp 535-542
148. Robertson, P.K., 2010, "Estimating in-situ state parameter and friction angle in sandy soils from CPT", 2nd International Symposium on Cone Penetration Testing, Huntington Beach, CA, Vol.2. pp 471-478
149. Robertson, P.K., 2010, "Soil Behaviour type from the CPT: an update", 2nd International Symposium on Cone Penetration Testing, Huntington Beach, CA, Vol.2. pp575-583
150. Robertson, P.K., 2012, "Interpretation of In-situ tests – some insights". J.K. Mitchell Lecture, ISC'4, Recife, Brazil
151. Cabal, K.L. and Robertson, P.K., 2014, Accuracy and repeatability of CPT sleeve friction measurements, 3rd International Symposium on Cone Penetration Testing, Las Vegas, NV, CPT14, <http://www.cpt14.com/cpt14-papers>
152. Robertson, P.K., 2017, Evaluation of Flow Liquefaction: influence of high stresses. Keynote presentation PDB-III Earthquake Geotechnical Engineering, Vancouver

NON- REFEREED CONTRIBUTIONS

1. Robertson, P.K. and R.G. Campanella, "Guidelines for Use and Interpretation of the Electric Cone Penetration Test", 1st and 2nd Edition, UBC Soil Mechanics Series No. 69, 1983, 176p.
2. Robertson, P.K., R.G. Campanella and P. Brown, "The Application of CPT Data to Geotechnical Design: Worked Examples", a companion paper to UBC Soil Mechanics Series No. 69.
3. Robertson, P.K., "Guidelines for Electric Cone Penetration Test", Prepared for Fugro Consultants International, Holland, Sept. 1983, 150p.
4. Campanella, R.G., P.K. Robertson, Four (4) chapters on In-situ testing for new edition of reference manual, "Subsurface Exploration and Sampling of Soils for Civil Engineering Purposes", by Hvorslev, 1949, commissioned by Engineering Foundation, United Engineering Center, New York, pgs. 280, 1985.
5. Campanella, R.G. and P.K. Robertson, "In-situ Testing of Soil: Try it - You'll Like It", Geotechnical News, Vol. 4, No. 2, pp. 24-27, 1986.
6. Bellotti, R., V. Crippa, V.N. Ghionna, M. Jamiolkowski and P.K. Robertson, "Self-boring Pressuremeter in Pluvially Deposited Sands", Report to U.S. Army, European Research Office of the U.S. Army, London, Contract No. DAJA45-84-C-0034, 1987.
7. Robertson, P.K., and R.G. Campanella, "Design Manual for Use of CPT and CPTU", Pennsylvania Department of Transportation (PennDot), 200p, 1988.
8. Robertson, P.K. and Addo, K., 1991, "Recent In-situ Methods to Determine Seismic Velocity Profiles", Geotechnical News, Vol. 9, No. 3, Sept.
9. Robertson, P.K. and Woeller, D.J., 1992. "In-Situ Penetration Testing for Evaluating Groundwater Contaminants", Environmental Consultant and Specifier, May-June.
10. Robertson, P.K., 1993. Canadian Liquefaction Experiment. Geotechnical News, Vol. 11, No. 2, p.36-37.
11. Robertson, P.K., 1994. Suggested Terminology for Liquefaction: An Internal CANLEX Report.
12. Robertson, P.K., List, B. and Hofmann, B.A., 1994. CANLEX Test Sites, Geotechnical News, Vol. 12, No. 3.
13. Characterization of Sand for Dynamic and Static Liquefaction - Progress Report. B.R. List and P.K. Robertson.
14. Site Location Selection (Phase I), Initial CPT Screening. P.K. Robertson, B.R. List, B.A. Hofmann, University of Alberta.
15. Sample Collection and Handling Procedures Report - Phase I Test Site. B.A. Hofmann, D.C. Seago, and P.K. Robertson, University of Alberta.
16. Liquefaction Event Planning - Dynamic Triggers. M.A. Pando and P.K. Robertson, University of Alberta.
17. CANLEX Event Planning. P.M. Byrne, University of British Columbia, P.K. Robertson, University of Alberta, B.R. List and S. Tan, Syncrude Canada Limited.
18. Progress Report II - CRD Grant Program. B.R. List and P.K. Robertson, November 1994.
19. CANLEX Phase II Data Review Report - Draft - C.E. Fear, and P.K. Robertson, March, 1996. Liquefaction Event: Performance Report (Response to Embankment

- Loading). S. Natarajan, B.A. Hofmann, M.E. Lefebvre and P.K. Robertson, February, 1996.
20. Detailed Site Characterization - Highland Valley Copper Mine, B.C. K.W. Biggar, and P.K. Robertson, April, 1996.

SELECTED INVITED SPEAKER & KEYNOTE PRESENTATIONS

- 1986 Invited speaker for ASCE "IN SITU 86" Conference, Virginia, USA
- 1987 Invited speaker for XIII Geotechnical Conference, Turin, Italy
- 1988 Invited speaker for ISOPT-1, Florida
- 1989 Invited speaker of Discussion Session XII Int. Conf. on Soil Mech. & Found. Eng., Rio de Janeiro, 1989
- 1990 Invited speaker and Session chairman, Int. Conf. on Pressuremeters, Oxford, England, April, 1989
- 1991 Session organizer, ASCE Geotechnical Engineering Congress, Boulder, Colorado, 1991
- 1992 Invited speaker at Wroth Memorial Symposium, Oxford, England
- 1993 Invited speaker at US-Japan Workshop on Earthquake Engineering, Napa, California, June, 1993
- 1994 Invited speaker XIII International Conference on Soil Mechanics and Foundation Engineering, New Delhi, India
- 1995 Invited state-of-the-art speaker at First International Conference on Earthquake Geotechnical Engineering, Tokyo, Japan
- 1995 Invited Moderator and Chair, ICE Conference, Advances in Site Investigation Practice, London, U.K.
- 1995 Invited Theme Lecture, CPT '95, Linkoping, Sweden
- 1996 Invited state-of-the-art paper, ISO '96, Osaka
- 1997 Invited speaker, Scottish Geotechnical Seminar, Glasgow
- 1997 Cross Canada Lecture Tour, Canadian Geotechnical Society, Fall 1997
- 1997 Invited Discussion Leader, XIV ISSMFE, Hamburg, Germany
- 1998 Invited Theme Lecture, First International Conference on Site Characterization, ISC'98, Atlanta, USA.
- 1999 Invited Speaker, Second International Conference on Earthquake Geotechnical Engineering, June 1999, Lisbon, Portugal.
- 2000 Invited Speaker to ASCE in Los Angeles, Sept., 2000
- 2001 Begemann Lecture, In-Situ 2001 International Conference, Bali, Indonesia
- 2004 Invited Theme Lecture, First International Conference on Site Characterization, ISC'2, Porto, Portugal.
- 2009 Invited Keynote Lecture, IS-Tokyo, International Conference on Performance-based Design in Earthquake Geotechnical Engineering, from case history to practice.
- 2012 5th J.K. Mitchell Lecture, ISC'4, Recife, Brazil
- 2015 Seed Medal Award Lecture, ASCE, Geo-Institute, IFCEE Conference, San Antonio, Texas, USA
- 2017 Keynote Presentation at PBD-III Earthquake Geotechnical Engineering, Vancouver, BC