

# Degrees

- 1959** Geodetic Engineer-Czech Technical University, Prague  
**1963** Honours in the highest category of the state professional examination in surveying  
**1968** Ph.D. in Mathematical Physics-Czechoslovak Academy of Science, Prague  
**1993** Dr.Sc. (Mathematical and Physical Sciences) - Czech Academy of Science, Prague  
**1999** Honorary Research Professor, UNB.  
**2002** Professor Emeritus, UNB.

# Awards and Recognitions

- 1967–1968** Natural Environmental Research Council of Great Britain - Senior Research Fellowship.
- 1969–1971** National Research Council of Canada - Postdoctorate Fellowship.
- 1975, 1976, 1979, 1984 summers** National Research Council of Canada - Visiting Professorship at University of Parana, Brazil.
- 1978 5 mos** U.S. Academy of Science - Senior Visiting Scientist at National Geodetic Survey, Rockville, Maryland.
- 1981 May** University of Sao Paulo, Brazil - Visiting Professorship.
- 1981, 1982 summers** University of Stuttgart, West Germany - Visiting Professorship.
- 1983** Telefix Award for best paper published during 1982 in The Canadian Surveyor on electronic positioning (with Drs. Wells and Delikaraoglou).
- 1984** Canadian Institute of Surveying Presidential Citation.
- 1984–85** UNB Merit Award for excellence in teaching and research.
- 1986** Swedish National Research Council - Visiting Research Fellow, Royal Institute of Technology, Stockholm.
- South African Council of Scientific and Industrial Research (CSIR) Research Fellow, September 2-11.
- 1987** Fellowship of American Geophysical Union.
- 1989** Senior Distinguished Scientist - Alexander von Humboldt Foundation (FRG) award.
- 1991** Fellowship of International Association of Geodesy.
- 1993** UNB Merit Award for excellence in teaching and research.
- 1996** CGU J. Tuzo Wilson medal for outstanding contributions to Canadian geophysics.
- 1998** O'Connor Fellow, Curtin University of Technology, Perth, WA., January-March.
- 1999–2002** Honorary Research Professor in UNB.
- 2003** Visiting Scientist, Curtin University of Technology, Perth, WA, February-March.
- 2003** Fellowship in Czechoslovak Society for Arts and Sciences.

# Membership in Professional Associations

- 1970–** American Geophysical Union (fellow since 1987)
- 1970–2004** Canadian Institute of Surveying and Mapping (member of Committee on Geodesy 1990-1992) now Canadian Institute of Geomatics
- 1973–96** Geological Association of Canada (fellow)
- 1976–** Canadian Geophysical Union (president 1986-88)
- 1981–2002** Association of Professional Engineers of New Brunswick (NBPEG) member
- 2003–** NBPEG associate membership
- 1989–** European Geophysical Society

## Membership in Other Societies

- 1977–86** New York Academy of Sciences (member)
- 1978–2001** The Explorers Club (fellow)
- 2002–** The Explorers Club Fellow Emeritus
- 1976–2002** Czechoslovak Society of Arts and Sciences (member)
- 1979–2000** Sigma Xi Society (member)

## International Involvement

- 1972–1990** Member, International Union of Geodesy and Geophysics Commission on Recent Crustal Movements Special Study Group for North America. Canadian rep. 1975-1990.
- 1972–** Reviewer, *Manuscripta Geodaetica*, *Bulletin Geodesique*, *Journal of Geophysical Research*, *Reviews of Geophysics and Space Physics*, *Geophysical Research Letters*, *Tectonophysics*, *Marine Geodesy*, *Studia Geophysica et Geodaetica*, and others, *Computers in Geosciences*.
- 1973** External examiner for the University of Lagos, Nigeria.
- 1973–78** Member, International Association of Geodesy Special Study Group V-29 (Astrogravimetric and Astrogeodetic Methods for Determining the Geoid).
- 1974** External advisor to U.S. National Geodetic Survey, NOAA, on sea level slope problems.
- 1975–1990** External advisor to U.S. Geological Survey on geodetic applications in contemporary geodynamics.
- 1975–83** Member, International Association of Geodesy Special Study Group 1.21 (Numerical Computations of Large Triangulation Networks).  
  
Member, International Association of Geodesy Special Study Group 1.41 (Application of Inertial Techniques to Geodesy).
- 1977** Visiting scientist for 6 months at U.S. National Centre for Earthquake Research (USGS), Menlo Park, Ca.
- 1978** Session Chairman, GEOP 9 International Conference, Columbus, Oh, October.
- 1978–82** Member, AGU Selection Committee (Russian papers for translation) for Geodesy, Mapping and

Photogrammetry.

- 1979–1990** Member, International Editorial Board of *Manuscripta Geodaetica*, Springer.
- 1980–83** Member, International Association of Geodesy Special Study Group 4.60 (Statistical Methods for Estimation and Testing of Geodetic Data).
- Special Study Group 5.63 (Time Dependent Earth Deformation Models for Local Reduction Problems).
- 1980–83** Member, International Association of Geodesy Special Study Group (Geodetic Applications to the Prediction of Earthquake and Volcanic Activity).
- 1982** External examiner, Ardhi Institute, Dar es Salaam, Tanzania.
- 1982–83** External consultant on geodesy to Regional Centre for Services in Surveying and Mapping, Nairobi, Kenya (May 1982; July 1983).
- 1982–85** Member, U.S. NRC/Academy of Sciences Committee on Geodesy, Washington.
- 1983–87** Member, International Association of Geodesy Special Study Group 4.56 (Differential Geometry of the Gravity Field).
- 1983–87** Member, International Association of Geodesy Special Study Group 1.75 (World Vertical Reference System).
- 1983–87** President, International Association of Geodesy Special Study Group 4.96 (Models for Time Dependent Geodetic Positioning).
- 1983–87** Representative of International Association of Geodesy to International Geological Correlation Program, UNESCO Project #200 (Sea Level Correlations and Applications).
- 1984** External consultant (geodesy) to National Cartographic Centre, Tehran, Iran.
- 1984** Session Chairman, AGU Chapman Conference on Vertical Crustal Motion, Harpers Ferry, WV, October.
- 1984–86** Member, American Geophysical Union Education and Human Resources Committee.
- 1985** Session Chairman, NAVD'85 Symposium, Washington, DC, April.
- Session Chairman, Tenth Earth Tide Symposium, Madrid, Spain, September.
- 1986** Session Chairman, International Workshop on "Mathematical-Geodetic Methods for the Determination of Geoid and Topography", organized by the Geodetic Institute of University of Stuttgart, Lambrecht, Federal Republic of Germany, October.
- 1987** Co-convenor of U-5 Symposium on Slow Deformations and Transmissions of Stress in the Earth at the IUGG General Assembly, Vancouver, B.C., August.
- 1987–91** Member, International Association of Geodesy Special Study Group 4-120 (Non-linear adjustment).
- 1987–91** Member, International Association of Geodesy Special Study Group 5-121 (Causes and mechanisms of post-glacial uplift).
- 1987–91** Member, International Association of Geodesy Special Study Group 5-123 (Definition and realization of terrestrial reference system).
- 1988–93** Member of the Executive Committee of Geoid Commission of the International Association of Geodesy.
- 1988–91** Member of "Charles Whitten Medal Committee" of the American Geophysical Union.
- 1988** Consultant in IBGE, Rio de Janeiro on: systematic errors in levelling, sea surface topography, adjustment of levelling networks, transformations between horizontal datums, GPS software.
- 1989–97** President, International Association of Geodesy Special Study Group GALOS (Geodetic

Aspects of the Law of the Sea). Since 1990 GALOS was a Sub-commission and since 1995 it is a Committee of IAG.

- 1990–2000** Member of Scientific Board, Faculty of Civil Engineering, Czech Technical University in Prague, Czech Republic
- 1990–2000** Editor of *Studia Geophysica et Geodetica*, Czech Academy of Sciences, Prague
- 1990** Panel leader (geodetic aspects of the Law of Sea) INSMAP '90 conference, Miami, Fla., October.
- 1990, 91** Consultant to National Cartographic Centre and National Cartographic Organization, both in Tehran, Iran.
- 1990–** External Advisor, Department of Surveying Engineering, K.N. Toosi Technical University, Tehran, Iran.
- 1991** Convenor, Session on "Mathematical Modelling", AGU Chapman Conference on Crustal Motions, Annapolis, MD, September.
- 1991–99** Vice-President, IAG Commission on Recent Crustal Motions.
- 1991** Convenor, International Conference of GALOS, Vienna, August.
- 1992–95** Editor-in-Chief of *Manuscripta Geodaetica* and *Bulletin Géodésique*.
- 1992–95** Member of AGU North American Advisory Committee.
- 1992** Convenor, International Conference on GALOS, Bali, June.
- 1993** Co-Convenor, International Association of Geodesy's 8th International Conference on Recent Crustal Movements, Kobe, Japan, 7-11 December. Session Chairman and Co-Convenor, *Mathematical Modelling of Crustal Motions*.
- 1993** Chaired GALOS meeting at the International Association of Geodesy General Assembly, Beijing, People's Republic of China, 9-14 August.
- 1994–2001** Member of joint International Association of Geodesy and International Hydrographic Organisation Advisory Board on Technical and Geodetic Aspects of the UN Convention on the Law of the Sea (ABLOS) on behalf of IAG. Vice-chairman 1994-97, chairman 1997-99.
- 1994–** Member of IAG Commission on Mathematical Geodesy.
- 1996** Convenor, Second International Conference GALOS, Bali, July 1-4.
- Chaired session on Continental Shelf Delimitation and a panel session on Law and Science.
- 1998–1999** Member of international team for the assessment of Finnish Geodetic Institute (for Finnish Ministry of Agriculture and Forestry).
- 1998–2000** Member of AGU Committee of Supporting Members.
- 1999** Convenor, ABLOS International Technical Conference, Monaco, Sept. 9-10.
- 2000** Co-convenor, Session on "One centimetre geoid", IAG International Symposium on Gravity, Geoid and Geodynamics 2000, Banff, July 31-August 4.
- 2006–2008** Adjunct Professor, Faculty of Geodesy and Geomatics Engineering, K.N. Toosi Technical University, Tehran, Iran.

## National Involvement

- 1972–74** Secretary, National Research Council Subcommittee on Geodesy.

Secretary of the National Organizing Committee for the International Symposium on Problems Related to the Redefinition of the North American Geodetic Network, held in Fredericton.

- 1972-75** Reporter for the Geodesy chapter of the Canadian Geophysical Bulletin.
- 1972-** Reviewer, *Canadian Surveyor*, *Canadian Journal of Earth Sciences*.
- 1973** Member, Ad Hoc Committee on Scientific Geodesy, Department of Energy, Mines and Resources.
- 1973-78** Member, Canadian GEOS-3 team of investigators.
- 1974-76** Reporter for the Canadian Geoscience Council Annual Report (Geodesy).
- 1974-77** National Correspondent (Geodesy) of the Canadian Geophysical Union.
- 1975** Convenor of the Canadian Geophysical Union Symposium on Satellite Geodesy and Geodynamics, Waterloo.
- Member, Canadian Institute of Surveying convention program committee.
- 1976** Convenor, Canadian Geophysical Union Symposium on Trends in Modern Geodesy, Laval.
- 1976-80** Member, National Research Council Canadian National Committee for Geodynamics.
- 1976-91** Member, Canadian Geophysical Union executive. Vice-President 1985-86. President 1987-89, Past President 1989-91.
- 1979** Organizer, Sixth Annual Meeting of Canadian Geophysical Union, Fredericton.
- 1980** Chairman of Technical Program, International Symposium on Problems Related to the Redefinition of North American Vertical Networks, Ottawa, May.
- 1980-85** Member, NRC Canadian National Committee for International Union of Geodesy and Geophysics.
- 1981** Geodesy representative on "Next Decade of Earth Sciences in Canada" workshop.
- 1982-85** Member, editorial board, *Canadian Geophysical Union Newsletter*.
- 1985** Session Chairman, Colloquium on Surveying and Mapping Education, Fredericton, June.
- 1985-93** Member, National Advisory Committee on Control Surveys and Mapping Working Group on GPS Applications in Canada, changed to Canadian Committee on Positioning from Space of Survey Centre, EMR.
- 1986** Consultant to the Government of the Province of Ontario.
- 1987-90** Geodetic Research Services Ltd. (vice-president)
- 1990-2001** Geodetic Research Services Ltd (President)
- 1988-92** "Canadian Geoid Committee" of Survey Centre, EMR (chairman)
- 1993-94** "Canadian Geoid Committee" of Survey Centre, EMR (member)
- 1998** Convenor of ABLOS Seminar, Fredericton, N.B.
- 1999** Consultant to Universal Systems Ltd., Fredericton.
- 1999-** Principal Investigator, "GEOIDE" National Centre of Excellence.

## Publications

<b>B</b>	Book
<b>TB</b>	Textbook
<b>LN</b>	Lecture Notes
<b>PR</b>	Paper in a Refereed Journal
<b>R</b>	Research Paper

<b>C</b>	Critique, Reference Paper
<b>IP</b>	Invited Paper to a Meeting
<b>NP</b>	Paper Read at a Meeting
<b>TH</b>	Thesis
<b>RT</b>	Report (non-technical)
<b>RW</b>	Review Paper (technical)

## 1959

- Vaníček P. 1959. Use of triplets of stars in the method of equal altitudes. M.Eng. thesis, Czech Technical University, Prague (in Czech). **TH,R**

## 1964

- Pleskot, V., Culik, J., J. Kafka and P. Vaníček, 1964. *Basic Programming for Ural I*. SNTL, Prague (in Czech). **TB**
- Vaníček, P. 1964. Use of complex numbers for adjusting geodetic traverses. *Aplikace Matematiky*, No. 3, pp. 35-39, NCSAV, Prague (in Czech). **R,PR**

## 1965

- Culik, J., T. Hruskova, P. Vaníček, 1965. *Programming for Ural 2*. SNTL, Prague (in Czech). **TB**
- Kabelac, J., P. Vaníček 1965. Computation of deviations of vertical from astronomical observations using the method of equal altitudes, *Travaux de l'Institute de Geophysique 1964*, No. 197, pp. 41-65, NCSAV, Prague. **R,PR**
- Vaníček, P. 1965. Reference of J. Sutti's Paper, A Priori Exactitude in Reading on Nomograms. *Referativnij Zhurnal-Mathematika*, Moscow (in Russian). **C,PR**
- Vaníček, P. 1965. Teaching computer programming and numerical analysis in the University of Paris. *Vysoka Skola*, No. 7, pp. 7-12, SPN, Prague (in Czech). **PR**

## 1967

- Vaníček, P. 1967. Unharmonic analysis and its applications in geophysics. Ph.D. dissertation, Czechoslovak Academy of Sciences, Prague (in Czech). **TH,R**

## 1968

- Vaníček, P. 1968. Unharmonic analysis of the drift of horizontal pendulums. International Symposium Exchange of Experience with Tiltmeter Observations and a Critical Analysis of their Physical Significance, Moscow (in Russian). **IP,R**

## 1969

- Vaníček, P. 1969. Approximate spectral analysis by least-squares fit. *Astroph. and Sp. Sci.*, Vol. 4, pp. 387-391. **R,PR**
- Vaníček, P. 1969. New analysis of the earth pole wobble. *Studia Geoph. et Geod.*, Vol. 13, pp. 225-230. **R,PR**
- Lennon, G.W., P. Vaníček 1969. Calibration tests and the comparative performance of horizontal pendulums at a single station. *Proc. of 6th Int. Symp. on Earth Tides*, Strasbourg, pp. 183-193. **NP,R**
- Vaníček P. 1969. Theory of motion of horizontal pendulum with a Zollner suspension. *Proc. 6th Int. Symp. on Earth Tides*, Strasbourg, pp. 180-182. **NP,R**
- Vaníček P. 1969. An analytical technique to minimize noise in a search for lines in the low frequency spectrum. *Proc. of 6th Int. Symp. on Earth Tides*, Strasbourg, pp. 170-173. **NP,R**

## 1970

- Quraishie, G.S., P. Vaníček, 1970. A search for low frequencies in residual tide and mean sea level observations by means of the least-squares spectral analysis. *Rep. on Symp. on Coastal Geodesy*, Munich, pp. 485-493. **IP,R**
- Vaníček, P. 1970. Spectral analysis by least-squares fit. 51st An. Meet. of AGU, Washington. **NP,R**

## 1971

- Vaníček, P. 1971. Introduction to adjustment calculus. Department of Surveying Engineering Lecture Notes, University of New Brunswick, Fredericton. **LN**
- Vaníček, P. 1971. Further development and properties of the spectral analysis by least-squares. *Astroph. and Sp. Sci.*, Vol. 12, pp. 10-33. **R,PR**
- Vaníček, P. 1971. Spectral analysis by least-squares fit. IUGG meeting, Moscow. **IP,R**
- Vaníček, P. 1971. Physical Geodesy 1. Department of Surveying Engineering Lecture Notes 21, University of New Brunswick, Fredericton. Also translated to Spanish as Geodesia Fisica Aplicada, tomo I. 1980, Secretaria de programacion y presupuesto, Detenal, Mexico, DF (several editions). **LN**
- Gregerson, L.F., G. Symonds, P. Vaníček, 1971. Reports on experiments with a gyroscope equipped with electronic registration. IUGG meeting, Moscow. **NP,R**
- Gregerson, L.F., G. Symonds, P. Vaníček, 1971. Reports on experiments with a gyroscope equipped with electronic registration. FIG Meeting, Wiesbaden. **NP,R**
- Vaníček, P. 1971. An attempt to determine long-periodic variations in the drift of horizontal pendulums. *Studia Geoph. et Geod.*, Vol. 15, pp. 416-420. **R,PR**
- Vaníček, P. 1971. Critique of M. Romanowski's "The Theory of Random Errors Based on the Concept of Modulated Normal Distribution." *The Canadian Surveyor*, Vol. 25, pp. 467-468. **C,PR**

## 1972

- Vaníček, P., G.W. Lennon, 1972. [The theory of motion of the horizontal pendulum with a Zollner suspension](#). *Studia Geoph. et Geod.*, Vol. 16, pp. 30-50. **R,PR**
- Vaníček, P. 1972. Dynamical aspects of suspended gyro-compass. *The Canadian Surveyor*, Vol. 26, pp. 72-83. **R,PR**
- Vaníček, P., J.D. Boal, T.A. Porter, 1972. Proposed new system of heights for Canada. Surveys and Mapping Branch Report No. 72-3, Ottawa. **R**
- Vaníček, P., A.C. Hamilton, 1972. Further analysis of vertical crustal movement observations in the Lac St. Jean area, Quebec. *Can. J. of Earth Sci.*, Vol. 9, pp. 1139-1147. **R,PR**
- Vaníček, P. 1972. Brief outline of the Molodenskij theory. Department of Surveying Engineering Lecture Notes 23, University of New Brunswick, Fredericton. **LN**
- Vaníček, P. 1972. Physical geodesy II. Department of Surveying Engineering Lecture Notes 24, University of New Brunswick, Fredericton. Also translated into Spanish as *Geodesia Fisica Aplicada*, tomo II, 1978. Secretaria de programacion y presupuesto, Detenal, Mexico, DF (several editions). **LN**
- Vaníček, P. 1972. The earth-pole wobble. Department of Surveying Engineering Lecture Notes 25, University of New Brunswick, Fredericton. **LN**
- Vaníček, P., D.E. Wells, 1972. The least-squares approximation and related topics. Department of Surveying Engineering Lecture Notes 22, University of New Brunswick, Fredericton. **LN**
- Vaníček, P. 1972. Tensors. Department of Surveying Engineering Lecture Notes 27, University of New Brunswick, Fredericton. **LN**

## 1973

- Merry, C.L., P. Vaníček, 1973. Horizontal control and the geoid in Canada. *The Canadian Surveyor*, Vol. 27, pp. 23-31. **R,PR**
- Vaníček P., D. Woolnough, 1973. A programme package for packing and generalising digital cartographic data. Department of Surveying Engineering Technical Report 23, University of New Brunswick, Fredericton. **R**
- Merry, C.L., P. Vaníček 1973. Computation of the geoid from deflections of vertical using a least-squares surface fitting technique. 54th Ann. Meeting of AGU, Washington. **NP,R**
- Vaníček, P., C.L. Merry, 1973. The influence of geoid-ellipsoid separation on the Canadian horizontal control. CIS Annual Meeting, Ottawa. **NP**
- Vaníček, P., C.L. Merry, 1973. Determination of the geoid from deflections of vertical using a least-squares surface fitting technique. *Bulletin Géodésique*, No. 109, pp. 261-279. **R,PR**
- Vaníček, P. 1973. Gravimetric satellite geodesy. Department of Surveying Engineering Lecture Notes 32, University of New Brunswick, Fredericton. **LN**
- Vaníček, P. 1973. The earth tides. Department of Surveying Engineering Lecture Notes 36, University



of New Brunswick, Fredericton. **LN**

- Krakiwsky, E.J., P. Vaníček, L.A. Gale, A.C. Hamilton, 1973. Objectives and philosophy of the International Symposium on Problems Related to the Redefinition of North American Networks. *The Canadian Surveyor*, Vol. 27, p. 246. **PR**
- Vaníček, P. 1973. Use of relevelling in small regions for vertical crustal movement determination. 3rd GEOP Conference, Columbus, Ohio. **IP,R**
- Vaníček, P. 1973. Introduction of adjustment calculus (2nd rev. ed.). Department of Surveying Engineering Lecture Notes 35, University of New Brunswick, Fredericton. Also translated into Spanish. **LN**

## 1974

- Merry, C.L., P. Vaníček, 1974. The geoid and translation components. *The Canadian Surveyor*, Vol. 28, pp. 56-62. **R,PR**
- Vaníček, P., E.J. Krakiwsky, 1974. Letter to the editor: *The Canadian Surveyor*, Vol. 28, pp. 91-92. **C,PR**
- Krakiwsky, E.J., P. Vaníček, 1974. Geodetic research needed for the redefinition of the size and shape of Canada. Symposium Geodesy for Canada, pp. A1-A17. **IP,RW**
- Merry, C.L., P. Vaníček, 1974. A method for astrogravimetric geoid determination. Department of Surveying Engineering Technical Report 27, University of New Brunswick, Fredericton. **R**
- Vaníček, P., D.E. Wells, 1974. Positioning of horizontal geodetic datums. *The Canadian Surveyor*, Vol. 28, No. 5, pp. 531-538. **NP,R,PR**
- Merry, C.L., P. Vaníček, 1974. A technique for determining the geoid from a combination of astrogeodetic and gravimetric deflections. *The Canadian Surveyor*, Vol. 28, No. 5, pp. 549-554. **NP,R,PR**
- Vaníček, P. 1974. Present status and the future of geodesy in Canada. First CGU Meeting, St. John's. **IP,RW**
- Vaníček, P., D. Christodulides, 1974. A method for evaluating vertical crustal movements from scattered geodetic relevellings. *Canad. J. of Earth Sci.*, Vol. 11(5): 605-610. **R,PR**
- Thomson, D.B., P. Vaníček, 1974. Note on reduction of spatial distances to a reference ellipsoid. *The Survey Review*, XXII, pp, 1-4. **R,PR**
- Chrzanowski, A., A.C. Hamilton, E.J. Krakiwsky, P. Vaníček, 1974. An evaluation of the geodetic networks in Ontario. Research report prepared for the Ministry of Natural Resources, Province of Ontario, Toronto. **R**
- Vaníček, P. (ed) 1974. *Proceedings of the International Symposium on Problems Related to the Redefinition of North American Geodetic Networks*. Fredericton, May. CIS, Ottawa. **B**

- Vaníček, P., A. Chrzanowski, E.J. Krakiwsky, A.C. Hamilton, 1974. A critical review of alternatives with respect to the geodetic system of the Maritime Provinces. Research report prepared for the Land Registration and Information Service, Fredericton. **R**

## 1975

- Vaníček, P. 1975. Contribution to Geosciences in Canada (Geodesy). Canadian Geoscience Council, 1974. **RT**
- Vaníček, P. 1975. Vertical crustal movements in Nova Scotia as determined from scattered geodetic relevellings. *Tectonophysics*, 29, pp. 183-189. **NPR,PR**
- Vaníček, P. 1975. Report on geocentric and geodetic datums. Department of Surveying Engineering Technical Report 32, University of New Brunswick, Fredericton. **R**
- Nassar, M.M., P. Vaníček 1975. Levelling and gravity. Department of Surveying Engineering Technical Report 33, University of New Brunswick, Fredericton. **R**
- Krakiwsky, E.J., P. Vaníček 1975(eds). Geodesy in Canada 1971-1974. Canadian national report to IAG, Canadian National Committee for IUGG. **RT**
- Wells, D.E., P. Vaníček, 1975. Alignment of geodetic and satellite coordinate systems to the average terrestrial system. *Bulletin Géodésique*, 117, pp. 241-257. **PR**
- Hamilton, A.C., A. Chrzanowski, P. Vaníček, 1975. A critical review of existing and possible map projection systems for the Maritime Provinces. Research report prepared for the Land Registration and Information Service, Fredericton. **R**
- Hamilton, A.C., A. Chrzanowski, P. Vaníček, R. Castonguay, 1975. Map projections, grid coordinates, and geo-codes. Commonwealth Survey Officers Conference, Cambridge. **NP**
- Masry, S.E., P. Vaníček, 1975. Deviation of camera rotations from LTN-51 inertial navigation systems. Department of Surveying Engineering Technical Report 34, University of New Brunswick, Fredericton. **R**
- Vaníček, P., D.F. Woolnough, 1975. Reduction of linear cartographic data based on generation of pseudo-hyperbolae. *The Cartographic Journal*, Vol. 12(2): 112-119. **R,PR**

## 1976

- Vaníček, P., 1976. Physical geodesy. Department of Surveying Engineering Lecture Notes 43, University of New Brunswick, Fredericton. **LN**
- Vaníček, P. (ed) 1976. *Proceedings of the 1975 CGU Symposium of Satellite Geodesy and Geodynamics*. Publications of the Earth Physics Branch No. 45, 3. Ottawa. **B**
- Vaníček, P. 1976. Vertical crustal movements pattern in Maritime Canada. *Canad. J. of Earth Sci.*, 13(5): 661-667. **R,PR**
- Vaníček, P. 1976. Papel de la geodesia en la sociedad. Proceedings of Congreso Nacional de

- Vaníček, P. 1976. Contribution to Geosciences in Canada (Geodesy) 1976. Canadian Geoscience Council. **RT**

## 1977

- Vaníček, P. 1977. Vertical crustal movements in southern Ontario. Earth Physics Branch, Open File Report K10-77-12, Ottawa. **R**
- Vaníček, P., M.M. Nassar, F.W. Young, 1977. Vertical crustal movements and sea-level records. Annual Meeting of CGU, Vancouver. **IP,R**
- Vaníček, P. 1977. Sea level variations in Maritime Canada. Research report prepared for the Geodetic Survey of Canada, Ottawa. **R**
- P. Vaníček, 1977. Geodesy and geophysics. In: *Proceedings of Geophysics in the Americas*, Ottawa, September 1976. Eds. Tanner and Dence. Publications of the Earth Physics Branch No. 46, 3, pp. 45-48. (Also translated into Spanish.) **IP,RW,PR**

## 1978

- Wells, D.E., P. Vaníček, 1978. Least squares spectral analysis. Bedford Institute of Oceanography Report No. BI-R-78-8. **R,PR**
- Vaníček, P. 1978. To the problem of noise reduction in sea level records used in vertical crustal movement detection. *Phys. Earth Plan. Int.* 17, pp. 265-280. **R,PR**
- Vaníček, P., E.J. Krakiwsky, 1978. Geodesy reborn. *Proceedings of Annual Meeting of ACSM-ASP*, Washington, February, pp. 369-373. Also in *Surveying and Mapping*, XXXVIII(1): 23-26. **R,IP,RT,PR**
- Vaníček, P. 1978. Contemporary vertical crustal movements in southern Ontario from geodetic data. AGU Annual Meeting, Miami, April. **IP,R**
- Nagy, D., P. Vaníček, 1978. Preparation of contemporary vertical crustal movement map of Canada: A progress report. CGU Annual Meeting, London, Ontario, May. **NP,RT**
- Anderson, E., P. Vaníček 1978. Suggestions relating to the classification, accuracy, and execution of vertical control surveys. Research report prepared for the Geodetic Survey of Canada, Ottawa. **R**
- Vaníček P. 1978. Earthquake prediction: Some myths and facts. IXth World Congress, S.V.U., Cleveland, Ohio, October. **IP,RW**
- Vaníček, P. 1978. Gravity needs in geodesy. Contribution to U.S. National Academy of Science Workshop on Gravity Satellites, Washington, D.C., November. **IP,RW**

## 1979

- Vaníček, P., M. Elliott, R.O. Castle, 1979. Four dimensional modelling of recent vertical movements in the area of the southern California uplift. *Tectonophysics*, 52, pp. 287-300. **R,PR**

- Lambert, A., P. Vaníček, 1979. Contemporary crustal movements in Canada. *Canad. J. of Earth Sci.*, 16(3, part 2): 647-668. **R,RW,PR**
- Vaníček, P. 1979. Vertical crustal movements-Terrestrial techniques. GEOP-9 Conference (Session Leader's Report), *EOS, Transactions of AGU*, 60(28): 524. **IP,RT**
- Vaníček, P. 1979. Tensor structure and the least squares. *Bulletin Géodésique*, 53, pp. 221-225. **PR**
- Nagy, D., P. Vaníček, 1979. Map of contemporary vertical crustal movements in Canada. 6th Annual Meeting CGU, Fredericton. **NP**
- Steeves, R.R., P. Vaníček, 1979. Earth tide tilt observations at UNB. 6th Annual Meeting CGU, Fredericton. **NP**
- Vaníček, P. 1979. UNB contribution to Canadian National Report for IAG. Canberra, Australia. **RT**
- Vaníček, P. 1979. Sixth annual meeting of Canadian Geophysical Union. *Geoscience Canada* 6(4): 216-217. **PR**
- Vaníček, P. 1979. Dr. E.J. Krakiwsky leaves the University of New Brunswick for the University of Calgary. *The Canadian Surveyor*, 33(4): 396. **PR**
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## 1980

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