

# Dr. Petr Vanýsek

## Curriculum vitae

29 January 2012

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                          Northern Illinois University  
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Born:             in Ostrava, Czechoslovakia, presently Czech Republic  
Status:           US naturalized citizen

## EDUCATION

1971-1976       MSc. (Summa Cum Laude), physical chemistry. Charles University, Prague, Czechoslovakia.  
1977-1982       Ph.D. (Summa Cum Laude), physical chemistry. Czechoslovak Academy of Sciences, J. Heyrovský Institute of Physical Chemistry and Electrochemistry, Prague, Czechoslovakia.

## EXPERIENCE

### Present position:

Assistant (8/85-5/91), Associate (6/91), and Full Professor (2008) Northern Illinois University, Department of Chemistry and Biochemistry, DeKalb, IL 60115.  
Director of Graduate Studies in the Department of Chemistry and Biochemistry and Assistant Chair 2009-2012.

### Past positions:

1981-1982       Research Associate, J. Heyrovský Institute of Physical Chemistry and Electrochemistry, Prague, Czechoslovakia.  
1982             Assistant Professor, Charles University of Prague, part time, Faculty of Philosophy. Prague.  
1982-1984       Postdoctoral Research Associate, University of North Carolina, Chapel Hill, North Carolina.  
1984             Undergraduate Laboratories Coordinator, University of North Carolina, Chapel Hill.  
1984-1985       Faculty-in-residence, University of New Hampshire, Durham, NH.

1993-1994	Visiting Professor, University of Calgary, Alberta, Canada.
1998	Research visitor: Sandia National Laboratories, Sensor Group. June/July.
1999	Research visitor: Georgia Institute of Technology, Sensor research. July.
2000-2002	Principal Scientist, ACLARA BioSciences, (sabbatical/leave of absence).
2004	Visiting Professor, University of Concepción, Chile, June 29-July 9.
2007	Visiting Scientist, University of Calgary, Alberta, Canada September-October
2007	Visiting Lecturer, University of Concepción, Chile, November

## RESEARCH OBJECTIVES

Electrochemistry on interfaces between two immiscible electrolytes (structure, energetics, analytical applications). Electrochemical techniques (all the standard and contemporary methods of experimental inquiry with emphasis on interpretation of impedance and noise signal). Studies of oxides on metal surfaces, corrosion inhibition. Chemical sensors - Gas and liquid - principles, measurements, response evaluation. Electrochemical and interpretational aspects of quartz crystal microbalance oscillators. Applied electrochemistry – fuel cells and corrosion protection.

## SELECTED EXAMPLES OF DISTINGUISHED SERVICE

Federation of Materials Societies, President 2011-  
 Electrochemical Society (ECS), member of the Audit Committee 2010-2014  
 Electrochemical Society (ECS), Trustee to the Federation of Materials Societies 2009-2012  
 Electrochemical Society (ECS), member of the Financial Policy Advisory Committee 2008-2010.  
 Electrochemical Society (ECS), Secretary of the Society, Member of the Executive Committee. 2004-2008  
 Electrochemical Society (ECS), Publications Committee 2004-2008  
 Electrochemical Society (ECS), Society Meetings Committee 2004-2008  
 Electrochemical Society (ECS), Financial Committee 2004-2008  
 International Society of Electrochemistry, National Representative (USA) 2006-2008, elected for second term 2009-2011  
 Electrochemical Society, Physical Electrochemistry Division, secretary/treasurer 2003-2005  
 Society for Electroanalytical Chemistry, Member at large, Board of Directors 2003-2008  
 Society for Electroanalytical Chemistry, Treasurer, 2010-  
 Electrochemical Society – nominated for the Treasurer 2002  
 Electrochemical Society Chicago Section, Chairman 2002-2005  
 Electrochemical Society, Council of Sections, Chair 2002-2003  
 Electrochemical Society, Council of Sections, Secretary 2001-2002  
 Electrochemical Society - Technical affairs committee May 1999-May 2003  
 ECS Sensor Group, Chairman, 1996-1998  
 Electrochemical Society - Graduate awards committee - 1996  
 ECS Local Section (Chicago) Counselor, 1995-present  
 ECS Sensor Group, Vice-chairman, October 1994-96

Chairman, Local Section of ECS June 1994-95  
Vice chairman, Local Section of ECS June 1993  
Interface, Advisory Board, 1992-1996  
Sensor Group, Newsletter editor, 1992-1996  
Sensor Group, Member-at-large, 1992-1994  
Treasurer, Local Section of the Electrochemical Society (ECS) 1992-1993  
American Chemical Society – Past Member

## TEACHING

27 years of teaching experience at the university level, both graduate and undergraduate, in following subjects:

- Introductory chemistry (for nonchemists)
- General chemistry (1<sup>st</sup> and 2<sup>nd</sup> semester sequence)
- Quantitative analytical chemistry
- Instrumental analytical chemistry
- Electronics in chemical instrumentation
- Graduate electroanalytical chemistry
- Graduate applied electrochemistry
- Graduate physical electrochemistry
- Graduate special topics in electrochemistry (Fuel cells, Impedance measurements)
- Introduction to research – a service course
- Introduction to preparation of successful visual presentations – a service course
- Short course on impedance spectroscopy
- Short course on instrumental analysis
- Interdisciplinary introductory course on nanoscience and nanotechnology (team teaching at the College of Engineering)

## SCIENTIFIC PUBLICATIONS

80. D. Contreras, J. Rodríguez, L. Basaez, J. Freer, R. Valenzuela, H. Mansilla and P. Vanýsek: New insights in the dihydroxybenzenes-driven Fenton reaction: electrochemical study of interaction between dihydroxybenzenes and Fe(III). *Water Sci. Technol.* 64 (2011) 2103-2108.
79. N. Laanait, J. Yoon, B.-Y. Hou, P. Vanysek, M. Meron, B. Lin, G. Luo, I. Benjamin, and M. L. Schlossman. Monovalent ion condensation at the electrified liquid/liquid interface. *J. Chem. Phys.* (2010), 132(17), 171101/1-171101/4.
78. P. Vanýsek and H. Tavassol: Impedance in Electrochemistry--From Analytical Applications to Mechanistic Speculation. *ECS Transactions* 19(20) (2009) 43-54. (Published, refereed.)

77. P. Vanýsek and V. Novák: Liquid/liquid Electrochemistry in Electroanalysis: Fundamentals Revisited. In J. Li, P. Vanýsek, R. Brown, C. Bruckner-Lea, D. Hatchet and M. Josowicz [Eds.] 35 Years of Chemical Sensors. ECS Transactions, 19(6) (2009) 55-63. (Accepted, refereed)
76. P. Vanýsek: Impedance Data Masquerading as Unusual Circuit Elements: Instrumentation Artifacts. ECS Transactions, 13(13) (2008) 101-113.
75. Luis A. Basaez, Ivan M. Peric, Paola A. Jara, Cesar A. Soto, David R. Contreras, Carolina Aguirre and Petr Vanýsek: Electrochemical and Electrophoretic Study of Sodium Metamizole. Journal of the Chilean Chemical Society, 53 (2) (2008) 1126-1121.
74. Potucek, Rudolf K.; Sumar, Alykhan; Vanýsek, Petr; Birss, Viola I.: Data correction technique for using common electrochemical apparatus for the measurement of crystal impedance. Electrochimica Acta (2007), 52(28), 8031-8038. Published, refereed.
73. Petr Vanýsek and Philippe Gauthier: Disposable graphite electrodes for studies of catalytic layers of platinum. Journal of New Materials for Electrochemical Systems 11 (2008) 157-163. (Refereed)
72. Petr Vanýsek and Luis Basaez Ramirez: Interface between two immiscible liquid electrolytes: A review. Journal of the Chilean Chemical Society, 53 (2) (2008) 1455-1463.
71. G. Luo, S. Malkova, J. Yoon, D. G. Schultz, B. Lin, M. Meron, I. Benjamin, P. Vanýsek and M. L. Schlossman: Ion Distribution at the Nitrobenzene-Water Interface Electrified by a Common Ion. *J. Electroanal. Chem.*, 593 (2006) 142-158. [Invited paper.]
70. G. Luo, S. Malkova, S. V. Pingali, D. G. Schultz, B. Lin, M. Meron, I. Benjamin, P. Vanýsek and M. L. Schlossman: Structure of the Interface between Two Polar Liquid: Nitrobenzene and Water. *J. Phys. Chem. Lett. B.*, 110 (2006) 4527-4530.
69. P. Vanýsek and L. A. Delia, Impedance Characterization of a Quartz Crystal Microbalance. *Electroanalysis*, 18 (2006) 371-377.
68. G. Luo, S. Malkova, J. Yoon, D. G. Schultz, B. Lin, M. Meron, I. Benjamin, P. Vanýsek and M. L. Schlossman, Ion distributions near a liquid-liquid interface, *Science*, 311 (2006) 216-218.
67. F. R. Perez, L. Basáez, J. Belmar and P. Vanýsek, Cyclic voltammetry of 1-(n-hexyl)-3-methyl-5-pyrazolone-based enamines and their chloromanganese(III) and nitridomanganese(V) complexes. *J. Chil. Chem. Soc.*, 53 (2005) 575-580.

66. L. Basáez, P. Vanýsek, B. L. Rivas: Electrodeic polymer materials based on aniline. Influence of Ni<sup>2+</sup>, Co<sup>2+</sup> and Cu<sup>2+</sup> ions on its formation. *J. Chil. Chem. Soc.*, 50 (2005) 447-450.
65. G. Luo, S. Malkova, S. V. Pingali, D. G. Schultz, B. Lin, M. Meron, T. J. Graber, J. Gebhardt, P. Vanýsek, M. L. Schlossman: The width of the water/2-heptanone liquid-liquid interface. *Electrochem. Commun.*, 7 (2005) 627-630.
64. G. Luo, S. Malkova, S. V. Pingali, D. G. Schultz, B. Lin, M. Meron, T. J. Graber, J. Gebhardt, P. Vanýsek and M. L. Schlossman: X-Ray studies of the interface between two polar liquids: neat and with electrolytes. *Faraday Discuss.*, 129 (2005) 23-34.
63. P. Vanýsek The Chalkboard: The glass pH electrode. *Electrochemical Society Interface*, 13(2) (2004) 19-20.
62. P. Vanýsek: Meeting reports – Paris Attracts Analytical Chemists. Report on the 203<sup>rd</sup> Meeting of the Electrochemical Society, held in Paris, France, 26 April – 2 May 2003. *Trends in Analytical Chemistry*, Vol 22, Nos. 7 + 8, 2003, pp. x-xii.
61. Gelis A. V., Vanýsek P., Jensen M. P. and Nash K. L. Electrochemical and spectrophotometric investigations of neptunium in alkaline media. *Radiochimica Acta*, 89(9) (2001) 565-571.
60. Basáez L. Peric I. Aguirre C. Vanýsek P. Electrochemical study of amoxicillin antibiotic across liquid-liquid interface. [Spanish] [Article]. *Boletín de la Sociedad Chilena de Química*, 46(2) (2001) 203-208.
59. Basáez, L.; Vanýsek, P. “Transport Studies of  $\beta$ -Lactam Antibiotics and Their Degradation Products Across Electrified Water/Oil Interface,” *J. Pharm. Biomed. Anal.*, 19 (1999) 183-192.
58. H. N. Dinh, P. Vanýsek, V. I. Birss, The Effect of Film Thickness and Growth Method on Polyaniline Film Properties. *J. Electrochem. Soc.* 164(9) (1999) 3324-3334.
57. J. Janata, M. Josowicz, P. Vanýsek, D. M. DeVaney, “Chemical Sensors,” *Anal. Chem.* 70 (1998) 179R-208R.
56. P. Vanýsek, “Sensor Division: After a Decade and Into the Next Century,” *Interface*, 7(4) (1998) 17 et 32.
55. L. Basáez and P. Vanýsek: Electrochemical studies of  $\beta$ -lactam antibiotics and their degradation products. *J. Pharm. Biomed. Anal.*, 19 (1999) 183-192.
54. P. Vanýsek: Impact of electrode geometry, depth of immersion, and size on impedance measurement. *Canadian J. Chem.*, 75(11), (1997) 1635-1642.

53. V. I. Birss, M. Chan, T. Phan, P. Vanýsek and A. Zhang: An electrochemical study of the composition of thin, compact Pd oxide films. *J. Chem. Soc., Faraday Trans.*, 92(20) (1996) 4041-4047.
52. V. I. Birss, V. H. Beck, A. J. Zhang and P. Vanýsek: Properties of thin hydrous Pd oxide films, *J. Electroanal. Chem.*, 429 (1997) 175-184.
51. I. Serebrennikova, P. Vanýsek and V. I. Birss: Characterization of porous aluminum oxide films by metal electrodeposition. *Electrochim. Acta*, 42 (1997) 145-151.
50. V. I. Birss, S. Guha-Thakurta, C. E. McGarvey, S. Quach and P. Vanýsek: An electrochemical study of the photolysis of adsorbed flavins. *J. Electroanal. Chem.*, 423 (1997) 13-21.
49. P. Vanýsek: Charge transfer processes on liquid/liquid interfaces: The first century. *Electrochim. Acta*, 40 (1995) 2841-2847.
48. A. J. Zhang, V. I. Birss and P. Vanýsek: Impedance characterization of thin electrochemically formed palladium oxide films. *J. Electroanal. Chem.*, 378 (1994) 63-76.
47. P. Vanýsek: The Sensor Division: Past, Present and Future. *Interface* 3 (1994) 19-27.
46. Petr Vanýsek: Analytical applications of electrified interfaces between two immiscible solutions. *TRAC - Trends in Analytical chemistry*, 12 (1993) 357-363.
45. Ivan Krejčí and Petr Vanýsek: Effect of zinc and iron ions on the electrochemistry of nickel oxide electrode: Slow cyclic voltammetry. *J. Power Sources*, 47 (1994) 79-88.
44. Giselle Sandí and Petr Vanýsek: Impedance and voltammetric studies of electrogenerated polyaniline conducting film. *Synthetic Metals*, 64 (1994) 1-8.
43. Ivan Krejčí, Petr Vanýsek and Antonín Trojánek: Transport of  $\text{Zn(OH)}^-$  ions across a polyolefin microporous membrane. *J. Electrochem. Soc.*, 14 (1993) 2279-2283.
42. Zdeněk Samec, Antonín Trojánek and Petr Vanýsek: Polarization phenomena at ionic membrane/electrolyte interfaces. A Nafion membrane between two electrolyte solutions. *J. Electroanal. Chem.*, 332 (1992) 349-355.
41. Richard P. Buck and Petr Vanýsek: Interfacial potential differences at non-classical interfaces: Nernst, Nernst-Donnan, Nernst distribution and generalizations. *J. Electroanal. Chem.*, 292 (1990) 73-91.
40. Petr Vanýsek and Richard P. Buck: Multi-ion Nernst distribution potential equations: Interfacial potentials at equilibrium liquid/liquid and membrane interfaces. *J. Electroanal. Chem.*, 297 (1991) 19-35.

39. Petr Vanýsek, Irma C. Hernandez and Jianjiang Xu: Determination of choline, picrate, dodecylsulfate and several quaternary ammonium salts on an electrified liquid/liquid microinterface. *Microchem. J.*, 4 (1990) 327-339.
38. Petr Vanýsek: Analytical applications of electrochemical processes on the interface between two immiscible electrolyte solutions, *Anal. Chem.*, 62 (1990) 827A-835A.
37. Petr Vanýsek and Irma C. Hernandez: Ion transport across a microscopic interface between two immiscible electrolytes, *J. Electrochem. Soc.*, 137 (1990) 2763-2768.
36. Petr Vanýsek, Irma C. Hernandez and Jianjiang Xu, Supporting electrolytes for electrochemistry on liquid/liquid interfaces: Crystal violet and tetrabutylammonium tetraphenylborate in nitrobenzene. *J. Colloid Interface Sci.*, 139 (1990) 527-534.
35. Petr Vanýsek and Irma Hernandez: Microscopic interface between two immiscible electrolytes: A parallelism to an ultramicroelectrode. *Anal. Lett.*, 23 (1990) 771-785.
34. Petr Vanýsek and Zhisheng Sun: Bovine serum albumin adsorption on a water/nitrobenzene interface. *Bioelectrochem. Bioenerget.*, 2 (1990) 177-194.
33. P. Vanýsek: Uncertainty in potential of the reference interface in liquid/liquid measurements. *Electroanalysis*, 2 (1990) 409-413.
32. Deborah H. Wiegand and Petr Vanýsek: Distribution of oxacyanine dyes between water and nitrobenzene: Determination of partition constants, association and potentials of transfer of dye cations on liquid/liquid interfaces. *J. Colloid Interface Sci.*, 135 (1990) 272-282.
31. Zhisheng Sun and Petr Vanýsek: Electrochemical determination of lead and lead ion transfer at liquid/liquid interfaces. *Anal. Chim. Acta*, 228 (1990) 241-249.
30. Petr Vanýsek: Impedance spectroscopy and impedance related problems in electrochemistry on the interface between two immiscible electrolytes. *Chimica Oggi*, 8\_(January/February), (1990) 47-52.
29. Brenda D. Spangler, Petr Vanýsek, Irma C. Hernandez and Robin D. Rogers: Structure of crystal violet tetraphenylborate. *J. Cryst. Spec. Res.*, 19 (1989) 589-596.
28. Deborah H. Wiegand and Petr Vanýsek: Spectroscopic and fluorometric characterization of oxacyanine dyes in water and nitrobenzene. *Applied Spectroscopy*, 42 (1988) 958.
27. E. Makrlík, W. Ruth and P. Vanýsek: Proton transfer across the water/nitrobenzene interface facilitated by some electroneutral ligands. *Z. Phys. Chem.*, (Leipzig), 265 (1984) 1256-1259.

26. V. Vanýsek and P. Vanýsek: Prediction of deuterium abundance in comets. *Icarus*, 61 (1985) 57-59.
25. J. Koryta, Guo Du, W. Ruth and P. Vanýsek: Transfer of alkali metal and hydrogen ion across liquid/liquid interface mediated by monensin. *Faraday Discuss. Chem. Soc.*, 77 (1984) 209-216.
24. P. Vanýsek and R. P. Buck: Properties of the interface of two immiscible electrolytes mediated by molecules of biological importance. *J. Electrochem. Soc.*, 131, (1984) 1792-1796.
23. P. Vanýsek, J. D. Reid, M. A. Craven and R. P. Buck: Properties of the interface between two immiscible electrolytes in the presence of proteins, *J. Electrochem. Soc.*, 131 (1984) 1788-1791.
22. E. Makrlík, W. Ruth and P. Vanýsek: Proton transfer across the water/nitrobenzene interface facilitated by aniline. *J. Colloid Interface Sci.*, 96 (1983) 548-550.
21. J. D. Reid, P. Vanýsek and R. P. Buck: Potential dependence of capacitance at a liquid/liquid interface. II. Unblocked interface. *J. Electroanal. Chem.*, 170 (1984) 109-125.
20. P. Vanýsek and R. P. Buck: New developments in liquid/liquid interface transport: A literature review. *J. Electroanal. Chem.*, 163 (1984) 1-9.
19. J. Koryta, N. Yu. Kozlov, A. Hofmanová, W. Khalil, P. Vanýsek, W. Ruth, and D. Guo: Determination of some antibiotics by voltammetry at the nitrobenzene/water interface. *Antibiotiki* (Moscow), (1983) 810-814.
18. D. Guo, J. Koryta, W. Ruth, and P. Vanýsek: Diversity of ion carrier functions of monensin: A study using voltammetry at the interface of two immiscible electrolyte solutions. *J. Electroanal. Chem.*, 159 (1983) 413-420.
17. E. Makrlík, W. Ruth and P. Vanýsek: Proton transfer across the water/nitrobenzene interface facilitated by  $\alpha$ -hexylate anion. *Electrochim. Acta*, 28 (1983) 575-577.
16. J. D. Reid, P. Vanýsek and R. P. Buck: Potential dependence of capacitance at a polarizable (blocked) liquid/liquid interface. *J. Electroanal. Chem. Interfacial Electrochem.*, 161 (1984) 1-15.
15. E. Makrlík, P. Vanýsek and W. Ruth: Mobilities of some univalent ions in aqueous and nitrobenzene media. *Collection Czechoslovak Chem. Commun.*, 49 (1984) 1277-1281.

14. W. Ruth, and P. Vanýsek: Determination of aniline traces in nitrobenzene by the facilitated proton transfer across the water/nitrobenzene interface. *Microchem. J.*, 29 (1984) 162-167.
13. J. Koryta, W. Ruth, P. Vanýsek and A. Hofmanová : Determination of monensin by voltammetry at the interface between two immiscible electrolyte solutions. *Anal. Lett.*, 15(B21) (1982) 1685-1692.
12. P. Vanýsek, W. Ruth and J. Koryta: Valinomycin mediated transfer of potassium across the water/nitrobenzene interface. *J. Electroanal. Chem. Interfacial Electrochem.*, 148 (1983) 117-121.
11. I. G. Abidor, P. Vanýsek, S. A. Tatuljan and L. V. Chernomordik: Surface potential of lipid double-layer membranes in 1:1 electrolyte solutions [In Russian]. *Elektrokchimiya*, 17 (1981) 1844-1851.
10. I. G. Abidor, P. Vanýsek and S. A. Tatuljan: Inner membrane potential measurement by triangular pulse voltammetry. [In Czech]. *Chem. Listy*, 77 (1983) 209-213.
9. P. Vanýsek and M. Behrendt: Investigation of acetylcholine, choline and acetylcholinesterase at the interface of the two immiscible electrolyte solutions. *J. Electroanal. Chem. Interfacial Electrochem.*, 130 (1981) 287-292.
8. P. Vanýsek: Electrolysis with electrolyte dropping electrode III. Investigation of anions. *J. Electroanal. Chem. Interfacial Electrochem.*, 121 (1981) 149-152.
7. Le Quoc Hung and P. Vanýsek: Instrumentation for investigation of electrolytic phenomena on the phase boundary between two immiscible electrolyte solutions I. Ohmic drop compensation in a four-electrode system. [In Czech] *Chem. Listy*, 74 (1980) 869-873.
6. D. Homolka, Le Quoc Hung, A. Hofmanová , M. W. Khalil, J. Koryta, V. Mareček, Z. Samec, S. K. Sen, P. Vanýsek, J. Weber, M. Březina, M. Janda and I. Stibor: Electroanalytical aspects of Faradaic ion transfer across the interface of two immiscible electrolyte solutions. I. Chronopotentiometry and cyclic voltammetry. *Anal. Chem.*, 52 (1980) 1606-1610.
5. J. Koryta, M. Březina, A. Hofmanová , D. Homolka, Le Q. Hung, M. W. Khalil, V. Mareček, Z. Samec, S. K. Sen, P. Vanýsek and J. Weber: A new model of membrane transport: Electrolysis at the interface of two immiscible electrolyte solutions. *Bioelectrochem. Bioenerget.*, 7 (1980) 61-68, *J. Electroanal. Chem.*, 116 (1980) 61-68.
4. Z. Samec, V. Mareček, P. Vanýsek and J. Koryta: Electrolysis on the interface between two immiscible electrolyte solutions. [In Czech] *Chem. Listy*, 74 (1980) 715-736.

3. J. Koryta, P. Vanýsek, H. Jänchenová and M. Březina: Electrochemical properties of bis- $\pi$ -(3)-1,2-dicarbollylcobaltate. [In Russian]. *Elektrokchimiya*, 13 (1977) 706-709.
2. J. Koryta, P. Vanýsek and M. Březina: Electrolysis with electrolyte dropping electrode II. Basic properties of the system. *J. Electroanal. Chem. Interfacial Electrochem.*, 75 (1977) 211-228.
1. J. Koryta, P. Vanýsek and M. Březina: Electrolysis with an electrolyte dropping electrode. *J. Electroanal. Chem. Interfacial Electrochem.*, 67 (1976) 263-266.

#### OTHER PUBLICATIONS:

#### PATENTS

2. Berrien, La Shaun; Binyamin, Gary; Lackritz, Hilary S.; Vanýsek, Petr; Zhao, Mingqi. Sensor device and method for indicating oxygen consumption. PCT Int. Appl. (2002), 37 pp. Awarded 2005.
1. Patent Application filed (2001): Mingqi Zhao, Antonio Ricco, Tor Bjornson, Hillary S. Lackritz, Zhu Qun, Uyen Nguyen and Petr Vanýsek: Microfluidic chip having integrated electrodes.

#### BOOKS

3. P. Vanýsek [Editor]: Modern Electroanalytical Techniques, John Wiley, Chemical Analysis Series. Volume 139. J. Winefordner, Editor., John Wiley, New York 1996.
2. P. Vanýsek: Electrochemistry on Liquid/Liquid Interfaces, Chinese edition, translation of item 1, Peoples Republic of China, 1987.
1. P. Vanýsek: Electrochemistry on liquid/liquid interfaces. Lecture notes in chemistry, Vol. 39, Springer-Verlag, Berlin 1985. 106 pp.

#### EDITED VOLUMES/PROCEEDINGS/TRANSACTIONS

17. J. Vondrak, P. Baca, P. Dvorak, G. Ferrara, K. Jandova, J. Kadlec, J. Kazelle, P. Krivik, V. Novak, M. Sedlarikova, L. Trnkova, A. Visintin, M. Zatloukal, P. Vanysek; Editors,  
Advanced Batteries, Accumulators and Fuel Cells (ABAF 11). (Meeting held September 19 - September 23, 2010, Brno, Czech Republic). [In: ECS Trans., 2011; 32(1)].

16. Overberg, M. E.; Hesketh, P.; Ma, H.; Brown, J.; Johnson, W.; Vanýsek, P.; Editors, State-of-the-Art Program on Compound Semiconductors 52 (SOTAPOCS 52). (Symposium held during the 218th Meeting in Las Vegas, NV 10-15 October 2010). [In: ECS Trans., 2010; 33(13)]. 220 pp.
15. G. Hunter, P. Hesketh, Z. Aguilar, M. Carter, J. Li, A. Simonian, J. Davidson, A. Londergan, S. Shoji, P. Srinivasan, K. Sundaram, P. Vanysek; Editors, Chemical Sensors 9 -and- MEMS/NEMS 9. (Symposium held during the 218th Meeting in Las Vegas, NV 10-15 October 2010). [In: ECS Trans., 2010; 33(8)]. 340 pp.
14. V. Lvovich, P. Vanýsek, D. Hansen and M. Orazem (Editors). Impedance Techniques: Diagnostics and Sensing Applications. (Symposium held during the 216th Meeting in Vienna, Austria 4-9 October 2009). ECS Trans., 2010; 25(32).
13. P. Vanýsek, D. Hansen and M. Orazem (Editors). Impedance in electrochemistry – from analytical applications to mechanistic speculations 2. ECS Transactions 19(20) 137 pp. Pennington, NJ (2009).
12. J. Li, P. Vanýsek, R. Brown, C. Bruckner-Lea, D. Hatchet and M. Josowicz Editors) Years of Chemical Sensors. ECS Transactions, 19(6) (2009) 354 pp. The Electrochemical Society, Pennington (2009).
11. P. Vanýsek (Editor) Tutorials in Nanotechnology: Focus on Sensors. From: 214th ECS Meeting, October 12 - October 17, 2008, Honolulu, HI ECS Transactions, Vol. 16 No. 15. The Electrochemical Society, Pennington (2009).
10. P. Vanýsek (Editor) Impedance in Electrochemistry: From Analytical Applications to Mechanistic Speculations. (Symposium held at the 209th Meeting of ECS in Denver, CO 8-10 May 2006.) [In: ECS Trans., 2007; 2(17)]. Preface pp. iii-viii. Publisher. Electrochemical Society 2007. not refereed. (I was one of the referees for the volume, though.)
9. Impedance in Electrochemistry: From Analytical Applications to Mechanistic Speculations ECS. P. Vanýsek, Editor; Trans. Electrochem. Soc. **2**, (17) 29 (2007).
8. Chemical Sensors VI: Chemical and Biological Sensors and Analytical Methods. PV 2004-08. C. Bruckner-Lea, P. Vanýsek, G. Hunter, M. Egashira, N. Miua and F. Mizutani, Editors. Electrochemical Society, Pennington, NJ 2004. pp. 460.
7. Historical Perspectives of the Evolution of Electrochemical Tools. J. Leddy, V. Birss and P. Vanýsek Editors. Electrochemical Society, Pennington, NJ 2004. SV 2002-29, pp. 302.
6. Butler, M.; Vanýsek, P.; Yamazoe, N.; Editors. Proceedings of the Second International Symposium: Chemical and Biological Sensors and Analytical Methods

- II. [In: Proceedings of the Electrochemical Society (2001-18), 2001; 2001-18]. Electrochemical Soc, Pennington, N. J. 2001.
5. Wachsman, E. D.; Weppner, W.; Traversa, E.; Liu, M.; Vanýsek, P.; Yamazoe, N.; Editors. Solid-State Ionic Devices II: Ceramic Sensors. (Proceedings of the International Symposium held 23-23 2000 in Phoenix Arizona.) [In: Proc. - Electrochem. Soc., 2001; 2000-32]. 530 pp. Electrochemical Society, Pennington, N. J. 2001.
  4. P. Vanýsek, M. Alodan, J. Lipkowski, and O. Magnussen, Electrochemical Science and Technology of Copper, Proceedings Volume 2000-30, The Electrochemical Society, Pennington 2003.
  3. M. Butler, N. Yamazoe, P. Vanýsek and M. Aizawa (Editors): Chemical Sensors IV. In: Proc. - Electrochem. Soc. 1999; 99-23. 456 pp.
  2. J. Leddy, P. Vanýsek and M. D. Porter, Editors. Proceedings of a symposium on New Directions in Electroanalytical Chemistry II. In: Proc. - Electrochem. Soc., 1999; 99-5]. 268 pp. (Edited book)
  1. A. J. Ricco, M. A. Butler, P. Vanýsek, G. Horvai and A. F. Silva (Editors): Chemical and biological sensors and analytical electrochemical methods. Proceedings of the Electrochemical Society, Vol. PV97-19, Pennington 1997. 1100 pp.

## CHAPTERS

8. P. Vanýsek: The History of the Chicago Local Section of the Electrochemical Society. A chapter in a book. The Electrochemical Society – 1902-2002: A Centennial History. Written and Edited by Forest A. Trumbore and Dennis R. Turner. Electrochemical Society, Pennington, NJ **2002**. pp. 133-135.
7. P. Vanýsek: Liquid-Liquid Electrochemistry in: Modern Electroanalytical Techniques [P. Vanýsek, Editor], John Wiley, Chemical Analysis Series. Volume 139. J. Winefordner, Editor., John Wiley, New York 1996. pp. 337-364.
6. M. Butler, N. Yamazoe, P. Vanýsek and M. Aizawa (Editors): Chemical Sensors IV. In: Proc. - Electrochem. Soc. 1999; 99-23. 456 pp. (Contents refereed) (Edited book)
5. D. R. Turner, R. P. Buck, M. A. Butler and P. Vanýsek: Sensors in Electrochemistry and Solid State Science in The Electrochemical Society. 4th Edition, pp. 41-43. The Electrochemical Society, Pennington (1997).

4. Petr Vanýsek: Electrified Immiscible Liquid Boundaries: Conventional and Microscopic Interfaces. In: R. A. Mackay and J. Texter, Eds., *Electrochemistry in Colloids and Dispersions*, VCH Publishers, New York (1992), pp. 71-84.
3. Petr Vanýsek: Interfacial ion transport between immiscible liquids in: M. Blank and I. Vodyanoy (Eds.), *Membrane Electrochemistry, Advances in Chemistry Series Vol. 235*. pp. 55-81. The American Chemical Society, Washington 1994.
2. Jonathan D. Reid, Owen R. Melroy, William E. Bronner, Harold C. Hughes, Petr Vanýsek and Richard P. Buck: Structure of the double layer and rates of ion crossings at "single" immiscible liquid/liquid (L/L) interfaces, In: A. Fernando Silva (Ed.): *Trends in interfacial electrochemistry, NATO ASI Series. Series C: Mathematical and Physical Sciences, Vol. 179*, pp. 103-185. D. Reidel, Dordrecht (Holland), 1986.
1. J. Koryta and P. Vanýsek: Electrolysis at the interface of two immiscible electrolyte solutions. *Advances in Electrochemistry and Electrochemical Engineering* (H. Gerischer and C. W. Tobias, Eds.), Vol. 12, Wiley-Interscience, New York, 1981. pp. 113-176.

#### MEETING ABSTRACTS/PROCEEDINGS/INDEXED REPORTS

17. Artem Guelis, Jeremy Kropf, Christopher Johnson, Jeffrey Fortner, and Petr Vanysek: An In Situ Spectroelectrochemical Study of Neptunium (Np) Redox, Dissolution, and Precipitation Behavior at the Corroding Spent Nuclear Fuel/Alteration Phase Interface. Office of the Chief Scientist: Research Summaries 2006-2007, Source Term Thrust, ANL. (2007) 31-32.
16. M. L. Schlossman, G. Luo, S. Malkova, S. V. Pingali, D. Schultz, B. Lin, M. Meron, P. Vanýsek, X-ray studies of the electrolyte distribution at the interface between two polar liquids, Abstracts of Papers, 230th ACS National Meeting, Washington, DC, United States, Aug. 28-Sept. 1, 2005.
15. Gelis, Artem V.; Vanýsek, Petr; Jensen, Mark P.; Nash, Kenneth L.: Neptunium speciation in strongly alkaline solutions. Abstr. Pap. - Am. Chem. Soc. (2001), 221st.
14. Vanýsek, Petr; Boone, Travis; Dang, Tam; Geiger, Heather; Klapperich, Catherine M.; Lee, Howard; Nicewarner, Dawn; Kurnik, Ronald; Singh, Sharat; Xiao, Vivian; Zhao, Mitch: Multiwell microfluidic plates for evaporation-controlled sub-microliter assays: design and results. In: *Proceedings - Electrochemical Society 2001-18 (Chemical and Biological Sensors and Analytical Methods II)*, 376-383, Pennington, NJ 2001.

13. P. Vanýsek: Quartz crystal microbalance in electroanalytical applications In: Proceedings for the 1997 IEEE International Frequency Control Symposium, IEEE, Piscataway, 1997, pp. 49-55.
12. P. Vanýsek and S. Dragan: Capacitance and interfacial tension studies of water-nitrobenzene interface: A probe into the interfacial structure. In: New Directions in Electroanalytical Chemistry, J. Leddy and R. M. Wightman, Eds., Proceedings of the Electrochemical Society, Vol. PV96-9, Los Angeles, May 1996. pp. 212-223.
11. P. Vanýsek: Charge transfer processes on liquid/liquid interfaces: The status in 1994. Gov. Rep. Announce. Index (U.S.) 1995 95(2), Abstract No. 503,779. (Published 1996)
10. V. I. Birss, V. H. Beck and P. Vanýsek: Oxygen evolution at hydrous oxide films at platinum and palladium electrodes. Proceedings of the Electrochemical Society (Proceedings of the Symposia on Fundamentals of Electrochemical Process Design: A Tutorial and anodic Processes: Fundamental and Practical Aspects) Vol. 95-11, 381-399 (1995).
9. Vanýsek, P.: Introduction to electrochemical impedance. Report (1994), (Order No. AD-A277081), 78 pp. CAN 123:352926.
8. P. Vanýsek, Charge transfer processes on liquid/liquid interfaces: The first hundred years. Gov. Rep. Announce. Index (U.S.) 93(11), Abstr. No. 331,409 (1993).
7. P. Vanýsek: Analytical applications of electrified interfaces between two immiscible solutions. Gov. Rep. Announce. Index (U.S.) 93(15), Abstr. No. 343,837 (1993).
6. P. Vanýsek: Electrified microscopic and conventional interfaces between two immiscible solutions. Report. Gov. Rep. Announce. Ind. (U.S.), 91(20), Abstr. 158,285 (1991).
5. Vanýsek, Petr. Interfacial tension studies of electrified liquid/liquid interfaces: classical techniques for new data. Proc. - Electrochem. Soc. (1993), 93-7(Proceedings of the Symposium on Chemical Sensors II, 1993), 107-14.
4. P. Vanýsek: Investigation of the interface between two immiscible electrolytes applied to membrane electrochemistry. Report. Gov. Rep. Announce. Ind. (U.S.), 91(20), Abstr. 154,618 (1991).
3. Petr Vanýsek: Interfacial tension studies of electrified liquid/liquid interfaces: Classical techniques for new data. Proceedings of the Symposium on Chemical Sensors. PV93-7. M. Butler, A. Ricco and N. Yamazoe, Eds., The Electrochemical Society, Pennington, May 1993. pp. 107-114.

2. J. D. Reid, O. R. Melroy, W. E. Bronner, P. Vanýsek and R. P. Buck: Structure of the double layer and rates of ion crossings at "simple" immiscible liquid/liquid (L/L) interfaces. Relation to the mechanism of Liquid Ion-Selective electrodes. In: M. Kessler, J. Hopler and D. K. Harrigan (Eds). In: Proceedings International Symposium on "The theory and application of ion-selective electrodes in physiology and medicine," Burg Rabenstein, Sept. 12th - Sept.14th, 1983. Springer, Berlin 1984. Abstract #40, p. 40.
1. J. Koryta, P. Vanýsek, M. W. Khalil, V. Mareček, Z. Samec and M. Březina in: E. Pungor and I. Buzás (Eds.), "A mechanistic tool for liquid-membrane ion-selective electrode investigation: Polarization of the liquid-liquid interface." In: Proceedings of the Conference on Ion Selective Electrodes, Budapest, September 5-9, 1977, Akademiai Kiado, Budapest and Elsevier, Amsterdam, 1978, pp. 441-444.

#### CONTRIBUTIONS NOT PEER-REVIEWED

24. Petr Vanýsek: Richard P. Buck (In Memoriam). ECS Interface, Winter 2011, p. 26.
23. Petr Vanýsek: A Milestone at ECS Headquarters. ECS Interface Summer 2011, 15.
22. Petr Vanýsek: Congressional Visit Days 2011. ECS Interface Summer 2011, 13.
22. Petr Vanýsek: Richard Alkire Receives FMS National Materials Advancement Award. ECS Interface Spring 2011, 36-37.
21. Petr Vanýsek: Congressional Visit Days 2010. ECS Interface Summer 2010, 17.
20. Petr Vanýsek: Outreach. ECS Interface Summer 2009, 65.
19. Petr Vanýsek: Congressional Visit Days on Capitol Hill. ECS Interface Summer 2009, 17.
18. Petr Vanýsek: ECS Constitution and Bylaws. ECS Interface Summer 2008, 15.
17. Petr Vanýsek: Congressional Visit Days. ECS Interface Summer 2008, 15-16.
16. Petr Vanýsek: ECS and ISE Sign Cooperation Agreement, The Electrochemical Society Interface Winter 2007, pp. 14-15 (not refereed)
15. P. Vanýsek, Report from the European Section of the Electrochemical Society. Interface, Fall 2006, p. 51

14. P. Vanýsek: CRC Handbook of Chemistry and Physics: 82<sup>nd</sup> edition. Standard Transformed Gibbs Energy of Formation for Important Biological Species. pp. 7-9 - 7-11. Boca Raton 2001.
13. P. Vanýsek: CRC Handbook of Chemistry and Physics. 81st edition. Revision of tables of Diffusion Coefficients and Ionic Conductivities, in print. CRC Press, Boca Raton 2000.
12. P. Vanýsek: CRC Handbook of Chemistry and Physics. 79th edition. Revision of tables of Electrochemical Series, pp. (8-21)-(8-31). CRC Press, Boca Raton 1998.
11. P. Vanýsek: Tables of ion radicals. Updated tables for the 1996/97 edition of the CRC Handbook of Chemistry and Physics. pp. (8-31)-(8-33).
10. P. Vanýsek: Revision of tables of activity coefficients for CRC Handbook of Chemistry and Physics, 1995/96 edition. pp. (5-92)-(5-93)
9. Petr Vanýsek: Review of book by Kh. Brainina and E. Nyeman: Electroanalytical Stripping methods, Wiley 1993, (ISBN 471595063). Bioelectrochemistry and Bioenergetics, 36, 93 (1995).
8. Petr Vanýsek: Review of book by J. Koryta, J. Dvořák and L. Kavan: Principles of Electrochemistry, 2nd edition, Wiley, Chichester, 1993. 486 pp. for Bioelectrochemistry and Bioenergetics (M. Blank), 15 July 1993, Bioelectrochem. Bioenerget. 33, 107-108 (1994).
7. P. Vanýsek: Revision of the table of diffusion coefficients for CRC handbook (74th Ed.), 1993/94 edition. pp.(5-90)-(5-92). CRC Press, Boca Raton, 1993.
6. Petr Vanýsek: Ionic conductivity and diffusion at infinite dilution, Handbook of Chemistry and Physics, CRC Press, 1992/93 edition. Boca Raton, 1992. pp. (5-111)-(5-113).
5. Petr Vanýsek: Tables of standard reduction potentials. Revision for The Handbook of Chemistry and Physics, CRC Press, 1991/92 Edition, 72nd Edition. , Boca Raton 1991. pp. (8-17)-(8-27).
4. Petr Vanýsek: Redox potentials of ion radicals. A table. CRC Handbook of Chemistry and Physics, 70th edition, CRC Press, Boca Raton 1989. pp. (D-159)-(D-160).
3. P. Vanýsek: Electrochemical Series in Handbook of Chemistry and Physics, pp. (D-151)-(D-170), 67th edition 1986-1987, CRC Press, Boca Raton 1986.
2. P. Vanýsek: Table of Equivalent conductivities and other tables related to conductivity measurements. CRC handbook, Vol. 65, pp. D-171 - D-174, (1984).

1. P. Vanýsek: Standard Electrochemical Potentials. Handbook of Chemistry and Physics, Vol. 64, CRC, Boca Raton 1983. pp. (D-156)-(D-163).

#### PRESENTATIONS:

164. P. Vanýsek: Two Common Electroanalytical Techniques -- Cyclic Voltammetry and Impedance. Capacitance Data from Cyclic Voltammetry. A poster presented at the Gordon Research Conference on Electrochemistry, January 8-13, 2012, Ventura, CA.
163. P. Vanýsek: Two common electroanalytical techniques – cyclic voltammetry and impedance. Capacitance from cyclic voltammetry. The 220<sup>th</sup> meeting of the Electrochemical Society, Boston, MA October 12, 2011, paper # 2609.
162. P. Vanýsek: The Thermodynamic Limits to Energy Conversion: How to Justify Research in Search for Alternative Energy Sources. 12<sup>th</sup> Advanced Batteries, Accumulators and Fuel Cells meeting in Brno, Czech Republic, 12 Sept. 2011.
161. Petr Vanýsek: Electrochemistry of liquid interfaces – from analytical chemistry to the molecular structure. Seminar at the Chemistry Department of University of Iowa, October 21, 2010.
160. P. Vanýsek, H. Tavassol and C. Chen: Studies of ionic mobility and ionic association of supporting electrolytes for organic solvents. Presentation at the Electrochemical Society Meeting in Vienna, Austria, 7 October 2009, paper #3166.
159. Petr Vanýsek: Taxpayers money at work: Synchrotron radiation in electrochemistry. Seminar at Chicago State University, 29 September 2009.
158. Petr Vanýsek and V. Novák: Liquid-liquid electrochemistry in electroanalysis: Fundamentals revisited. The Electrochemical Society Meeting in San Francisco, 25 May 2009.
157. Petr Vanýsek and Hadi Tavassol: Effect of DC bias introduced by a potentiostat during AC impedance measurement. The Electrochemical Society Meeting in San Francisco, 27 May 2009.
156. P. Vanýsek: Seminar - X ray reflectivity studies on liquid/liquid interfaces: From analytical to physical electrochemistry. Department of Chemistry, University of Illinois Champaign-Urbana, 13 February 2009.
155. P. Vanýsek: Short course – Impedance measurement as a tool in electrochemistry. Given at the Technical University Brno, Czech Republic, 3 July 2008.

154. P. Vanýsek: Short course – Electrochemistry without oxidation or reduction: Charge transport across liquid interface investigated by x-ray scattering. Given at the Technical University Brno, Czech Republic, 3 July 2008.
153. Petr Vanýsek, Voltammetry and impedance as electrochemical diagnosis tools: Where do they meet and where do they differ. 2008 ABA meeting, Brno, Czech Republic 30 June 2008.
152. Petr Vanýsek, Impedance data masquerading as unusual circuit elements: Instrumentation artifacts. Presentation. 213th ECS Meeting, Phoenix, AZ, Paper 911, 21 May 2008.
151. Luis A. Basáez, Iván M. Peric, Paola A. Jara, César A. Soto<sup>1</sup>, David Contreras and Petr Vanýsek, Electrochemical and electrophoretic study of sodium metamizole. Poster. Meeting of the Chilean Society, Termas de Chillan (XXVII Jornadas Chilenas de Química). 20-23 November 2007.
150. L. Basáez, D. Contreras, J. Rodríguez and P. Vanysek, Electrochemical Study of the Dihydroxybenzenes and Fe(III) Interaction. Poster. Meeting of the Chilean Society, Termas de Chillan (XXVII Jornadas Chilenas de Química). 20-23 November 2007.
149. L. Basáez, R. Valenzuela, D. Contreras, Jaime Rodríguez and P. Vanysek, Determinación del comportamiento redox de los sistemas DHBs/Cu(II). Poster. Meeting of the Chilean Society, Termas de Chillan (XXVII Jornadas Chilenas de Química). 20-23 November 2007.
148. Petr Vanýsek and Philippe Gauthier: Electrochemistry on a disposable commercial graphite electrode. Presentation at a group meeting. University of Calgary, 12 October 2007.
147. Petr Vanýsek and Philippe Gauthier: Electrochemistry on a disposable commercial graphite electrode. Presentation. 212th ECS Meeting, Washington, DC, Paper 1568, 10 October 2007.
146. Petr Vanýsek: Determination of Gibbs energies of transfer for supporting electrolytes of the organic phase in liquid-liquid electrochemistry. Presentation. 212th ECS Meeting, Washington, DC, Paper 1449, 9 October 2007.
145. Petr Vanýsek: Determination of Gibbs energies of transfer of extremely lipophilic supporting electrolytes in liquid-liquid electrochemistry. Presentation. The 58th annual meeting of the International Society for Electrochemistry, Banff, Canada 12 September 2007.
144. Petr Vanýsek: ECS – A look at the present with our vision for the future. Presentation. ABA meeting Brno, Czech Republic. 4 June 2007.

143. P. Vanýsek and P. Gauthier: Disposable graphite electrode for studies of catalytic layers of platinum, 2007 ABA meeting, Brno, Czech Republic 4 June 2007.
142. P. Vanýsek: Short course – Introduction to Electrochemistry and Introduction to Electrochemical Impedance Measurements. Given at Champion Technologies, Calgary, Canada, May 22-24, 2007.
141. P. Vanysek, P. Gauthier and R. J. Hoey: Redox systems and electrodes for use in instructional laboratories: The search for the 60 mV peak-to-peak reversible system. 211<sup>th</sup> National Meeting of the Electrochemical Society, Chicago, IL, 8 May 2007.
140. Hou, Binyang; Yoon, Jaesung; Chen, Chiu-Hao; Laanait, Nouamane; Lin, Binhua; Vanysek, Petr; Schlossman, Mark L.: X-ray reflectivity study of lipid monolayers at the electrified 1,2-dichloroethane/water interface. Abstracts of Papers, 233rd ACS National Meeting, Chicago, IL, United States, March 25-29, 2007.
139. Yoon, Jaesung; Hou, Binyang; Luo, Guangming; Chen, Chiu-Hao; Laanait, Nouamane; Lin, Binhua; Vanysek, Petr; Schlossman, Mark L.: Structure of a 1,2-dichloroethane(BTPPATPFB)/water(NaCl) interface. Abstracts of Papers, 233rd ACS National Meeting, Chicago, IL, United States, March 25-29, 2007.
138. Luo, Guangming; Malkova, Sarka; Yoon, Jaesung; Schultz, Dave; Lin, Binhua; Benjamin, Ilan; Vanysek, Petr; Schlossman, Mark L.: X-ray scattering from an electrolyte interface. Abstracts of Papers, 233rd ACS National Meeting, Chicago, IL, United States, March 25-29, 2007.
137. P. Vanýsek: Origin of negative circuit elements in impedance spectroscopy. Invited talk. Gordon Research Conference on Electrochemistry, Ventura, CA. 18 January 2007.
136. P. Vanýsek: Contribution of reference electrodes to electrochemical impedance. Gordon Research Conference on Electrochemistry, Ventura, CA. [Poster]. 14-19 January 2007.
135. P. Vanýsek: Distribution of ions near the liquid-liquid interface. National ECS meeting, Cancun. Mexico, 3 November 2006.
134. Probing the molecular structure of the liquid-liquid interfaces, Seminar at the Chemistry Department of the University of Pittsburgh, 31 August 2006. Invited Talk.
133. P. Vanýsek: State of the Electrochemical Society – opportunities for new members, 2006 ABA meeting, Brno, Czech Republic, 5 June 2006.

132. P. Vanýsek: Impedance Mapping of Voltammetric Curves of Classical Redox Systems, 2006 ABA meeting, Brno, Czech Republic 6 June 2006
131. P. Vanýsek: Closing on the structure of immiscible liquid-liquid interfaces: X-ray studies at the Advanced Photon Source, Canadian Section of the Electrochemical Society, Acadia, Nova Scotia, Canada, 27 May 2006. Invited Talk.
130. P. Vanýsek and R. J. Hoey: Impedance mapping of voltammetric curves of classical redox systems, National meeting of the Electrochemical Society, Denver, Colorado, 10 May 2006.
129. P. Vanýsek: Electrochemical cell for in-situ spectroelectrochemical study of neptunium redox, dissolution and precipitation behavior at the corroding CNSF/alteration phase interface. 15 March 2006, Las Vegas, OST&I meeting.
128. P. Vanýsek: Ion distribution at the nitrobenzene-water interface electrified by a common ion. PITTCON, Orlando, 14 March 2006
127. Petr Vanýsek and Laura A. Delia: Measurement of quartz crystal impedance using the tools for electrochemical impedance. Oral presentation at the meeting of the Electrochemical Society, 18 October 2005, Los Angeles, CA.
126. P. Vanýsek: "Closing on the structure of immiscible liquid-liquid interfaces: X-ray studies at the Advanced Photon Source. Seminar at the Georgia Institute of Technology, 23 September 2005.
125. M. L. Schlossman, G. Luo, S. Malkova, S. V. Pingali, D. Schultz, B. Lin, M. Meron, P. Vanýsek: X-ray studies of the electrolyte distribution at the interface between two polar liquids, 230th ACS National Meeting, Washington, DC, United States, Aug. 28-Sept. 1, 2005. [presentation given by Mark Schlossman]
124. P. Vanýsek (poster presentation): Impedance artifacts of geometrically awkward samples. Gordon Research Conference on Fuel Cells, Bryant University, Smithfield, RI 19 July 2005.
123. P. Vanýsek (oral presentation): "Artifacts and their manifestation in impedance Measurements", presented May 18, 2005, in the Symposium "Impedance Based Sensors", of the 207th Meeting of The Electrochemical Society in Quebec City, Canada
122. P. Vanýsek: The Electrochemistry Without Redox: Interfaces Between Immiscible Electrolytes. Presentation for the local section of the Electrochemical Society at Peoria, IL 2 May 2005.

121. P. Vanýsek: Electrochemistry Without Redox: Interfaces Between Immiscible Electrolytes. Seminar for the Twin Cities Section of the Electrochemical Society at the University of Minnesota, 20 April 2005.
120. P. Vanýsek: "Liquid-liquid interfaces: Electrochemistry Without Redox: Interfaces Between Immiscible Electrolytes. Seminar at Case Western University 18 February 2005.
119. Petr Vanýsek, Strategy to better impedance data. Presentation at Energizer, Westlake, OH, 17 February 2005.
118. P. Vanýsek, Impedance artifacts and their evaluation. Presentation to the graduate students at Case Western University 18 February 2005.
117. P. Vanýsek: Electrochemistry Without Redox: Interfaces Between Immiscible Electrolytes. Presentation to the New England Section of the Electrochemical Society at Northeastern University, 12 January 2005
116. University of Concepción, Chile – Lecture to the Chemistry Department of Liquid-Liquid Interfaces 6 July 2004
115. ACS Rockford Section evening meeting: Petr Vanýsek: How to obtain electricity from chemical reactions: Fuel cells and hydrogen economy. Rockford, 8 December 2004
114. P. Vanysek: Meeting of the Electrochemical Society: X-ray studies of the interface between two polar liquids: Neat and with electrolytes, 6 October 2004.
113. paper 1256: X-ray Reflectivity from Neat 2-Heptanone/Water and Nitrobenzene/Water Interfaces and from Nitrobenzene/Water Interfaces Biased by a Common Ion - G. Luo, P. Vanýsek, S. Pingali, S. Malkova, and M. Schlossman presented at the 204th meeting of the Electrochemical Society, Orlando, FL Oct. 15, 2003.
112. Petr Vanýsek (presenting): Extraneous Components in Impedance Equivalent Circuits Arising from the Sample Geometry and the Real Properties of the Equipment. Presentation at the ECS meeting in Paris, France, 27 April 2003.
111. Petr Vanýsek (presenting): Electrochemical Impedance measurements – Workshop at the Energizer Inc., Cleveland. 30 May 2003.
110. Presentation at ECS. X-ray Reflectivity from Neat 2-Heptanone/Water and Nitrobenzene/Water Interfaces and from Nitrobenzene/Water Interfaces Biased by a Common Ion - G. Luo (University of Illinois), P. Vanýsek (Northern Illinois University), S. Pingali, S. Malkova, and M. Schlossman (University of Illinois) ECS meeting, Orlando, 15 October 2003. (P. Vanýsek presenting)

109. Poster X-Ray Studies of Liquid-Liquid Interfaces Mark L. Schlossman, Guangming Luo, Sai Venkatesh Pingali, Sarka Malkova, David Schultz (University of Illinois at Chicago), Petr Vanýsek (Northern Illinois University) Binhua Lin, Mati Meron, Tim Graber, Jeff Gebhardt, Aleksey Tikhonov (James Franck Institute and ChemMatCARS, University of Chicago) (July 6, 2003, Advanced Photon Source users meeting, Argonne National Laboratories) (Presented by Mark Schlossman)
108. Uranyl and uranium compounds: Facilitated transport on water/nitrobenzene interface Petr Vanýsek and Clifton T. Houchin. The Electrochemical Society meeting, Salt Lake City, 22 October 2002.
107. Voltammetric and impedance studies of ceramic electrode materials applicable to solid oxide fuel cells, Petr Vanýsek, Viola I. Birss, Anne Co and S.T. Xia, Meeting Advanced Batteries and Accumulators, Brno, Czech republic, 16-20 June 2002.
106. Multiwell Microfluidic Plates for Evaporation-controlled Sub-microliter Assays : Design and Results - P. Vanýsek, T. Boone, T. Dang, H. Geiger, M. Zhao, C. Klapperich, H. Lee, D. Nicewarner, R. Kurnik, S. Singh, and V. Xiao (ACLARA Biosciences, Inc.) ECS Meeting in San Francisco, 4.9.2001
105. A. V. Gelis, P. Vanýsek, M. P. Jensen and K. L. Nash: Neptunium Speciation in Strongly Alkaline Media. Oral presentation, 221<sup>st</sup> ACS National Meeting 1-5. 4. 2001
104. P. Vanýsek, V. I. Birss and H. Dinh: Interpreting the results of impedance spectroscopy: When the instrument artifact may come in the way. CSC meeting in Calgary. 26.5-2.6. 2000
103. P. Vanýsek and C. DiCarlo: Chemiresistor Response to Impedance Measurement: The true results and the artifacts. ECS meeting in Toronto, May 14-18, 2000.
102. P. Vanýsek and C. DiCarlo: Reference electrode effect on and apparent (incorrect) impedance response. Poster, Gordon Research Conference, Ventura, CA 16-28.1.2000
101. T. Houchin and P. Vanýsek: Uranyl ion transfer across liquid/liquid interface. Poster, Gordon Research Conference, Ventura, CA 16-28.1.2000
100. L. Basáez, I. Peric, C. Aguirre y P. Vanýsek: Estudio electroquímico de amoxicilina por medio de ITIES Poster: 24. - 27. 11 1999. XXIII Jornadas Chilenas de Química.

99. T. Houchin and P. Vanýsek: Characterization of uranyl ion interactions at the liquid/liquid interfaces using cyclic voltammetry. ECS Graduate student symposium, 9 April 1999. Presented by T. Houchin.
98. C. DiCarlo and P. Vanýsek: Importance of electrode immersion depth and placement in reproducibility and consistency of electrochemical experiments. ECS Graduate student symposium, 9 April 1999. Presented by C. DiCarlo.
97. Course given at the Travis Chemical Company in Calgary, August 1999. Two lectures given: Use of potentiostats in electrochemical measurements and Electrochemical impedance.
96. Argonne National Laboratories - seminar talk: Ion Transfer Voltammetry at Liquid/Liquid Interfaces. Materials Science Division. Bldg. 223, Conference room S105.
95. Faculty Development Program: Served on a panel for What's possible - What's Coming. Electronic Grading at NIU. 21 October 1999.
94. R. Potucek, I. Serebrennikova, V. I. Birss and P. Vanýsek, EIS Characterization of Porous Oxide Films on Aluminum after Metal Deposition, Meeting of the Electrochemical Society, Honolulu, 18 October 1999, paper # 73.
93. P. Vanýsek, A. Ricco, R.C. Hughes, W. G. Yelton, and M. Josowicz, Impedance Studies of Chemiresistive Platforms Used in Gas Sensors, The Electrochemical Society Meeting, Seattle, May 4, 1999, paper 1082.
92. Vanýsek, P. "What is New in Gas Sensor Research," Department of Chemistry and Biochemistry, NIU, October 12, 1998.
91. Vanýsek, P.; Stetter, J. "1998—The Year of the Sensor," meeting of the Chicago Section of the Electrochemical Society, September 21, 1998.
90. Vanýsek, P. "Electrical Properties of Chemically Active Surfaces and Interfaces: From Liquid/Liquid Interfaces to Chemical Sensors," invited colloquium, Department of Biological, Chemical and Physical Sciences, Illinois Institute of Technology, Chicago, IL, September 2, 1998.
89. Vanýsek, P. "QCM Application for Interfacial Tension Measurements," workshop presentation at Sandia National Laboratories, June 3, 1998.
88. Dinh, H. N.; Birss, V. I.; Vanýsek, P. "Cautions Related to Impedance Studies of Polyaniline Films," 193rd Meeting of the Electrochemical Society, San Diego, May 3-8, 1998 (paper no. 99).

87. Vanýsek, P.; Basáez, L., "Electroanalysis of Antibiotics at Liquid/Liquid Interface: Cephalexin and Ampicillin," 193rd Meeting of the Electrochemical Society, San Diego, May 3-8, 1998 (paper no. 1160).
86. P. Vanýsek and Luis Basáez: Determination of  $\beta$ -lactam antibiotics on the liquid/liquid interface. Gordon Research Conference on Electrochemistry, Ventura, CA, January 18-23, 1998. A poster.
85. 1997 IEEE International Frequency Control Symposium - invited lecture. Quartz crystal microbalance in electrochemical applications. Orlando, 28-30 May, 1997.
84. P. Vanýsek: Platinum metal used as an "inert" electrode in the electrochemical laboratory. The 191st Meeting of the Electrochemical Society, Montreal, 4-9 May, 1997. Paper #1009.
83. P. Vanýsek: Piezoelectric crystal for monitoring changes of interfacial tension at the ITIES during its polarization. 190th Meeting of the Electrochemical Society, San Antonio, 8 October 1996, paper 924.
82. P. Vanýsek: Electrochemistry without redox. Ion transport at liquid/liquid interface. Seminar at the Chemistry Department, university of Pittsburgh. Invited talk. 26 September 1996
81. P. Vanýsek and S. Dragan: Capacitance and interfacial tension studies of water-nitrobenzene interface: A probe into the interfacial structure. 189th Meeting of The Electrochemical Society, Los Angeles, 8 May 1996, paper 1036.
80. P. Vanýsek: Electrochemistry without redox - A recruitment talk at the Roosevelt University, 8 February 1996.
79. P. Vanýsek and V. I. Birss: Apparent inductance in electrochemical impedance measurements. [A poster]. Gordon Research Conference on Electrochemistry, Ventura, CA 14-19 January 1996.
78. L. Sheen, J. Vetrone, J. R. Stetter, W. J. Buttner and P. Vanýsek: A sensor for the measurement of chlorinated solvent vapors. ECS Meeting, Chicago, 9 October 1995, paper # 990.
77. P. Vanýsek: Electrochemistry without redox - A recruitment talk at the Chicago State University., 28 September 1995
76. I. Serebrennikova, V. I. Birss and P. Vanýsek: Studies of electrochemically formed aluminum oxide films by silver deposition and impedance analysis. A poster, paper # 746, presented by IS. ECS Meeting, Reno, May 22, 1995.

75. P. Vanýsek: Liquid/liquid interfaces in contemporary electrochemistry. ECS Meeting, Reno, May 23, 1995, paper # 709.
74. V. I. Birss and P. Vanýsek: Oxygen evolution at hydrous metal oxide surfaces. ECS Meeting, Reno, May 24, 1995, paper # 687.
73. V. I. Birss, M. Chan, T. Phan and P. Vanýsek: Metal oxide film formation/reduction: A QCM and impedance investigation. ECS Meeting, Reno, May 22, 1995, paper # 51.
72. P. Vanýsek: Interface between two immiscible solutions from electrochemistry point of view. Invited analytical division seminar lecture. University of Illinois Champaign - Urbana, 10 February 1995.
71. Irina Serebrennikova, Viola I. Birss and Petr Vanýsek: Metal electrodeposition on aluminum oxide films. Gordon Research Conference on Electrochemistry, 15-20 January 1995, poster, presented by PV.
70. P. Vanýsek: Electrochemistry for the study of metal/metal-oxide surfaces. Experience from work in Canada. 19 October 94 - Chicago local section presentation.
69. P. Vanýsek and G. Sandi: Studies of anomalous conductivity of aqueous solutions within porous confinement. 186<sup>th</sup> Electrochemical Society Meeting 10 October 1994. paper #587. Miami Beach
68. Viola Birss, Aubrey Zhang, Huyen Dinh and Petr Vanýsek: Oxide films at Pd and Pt: Model of film growth and nanostructure. Presentation by VIB. 77th CSC Conference and Exhibition, Winnipeg, May 30, 1994. Paper # 178.
67. Irina Serebrennikova, Viola Birss and Petr Vanýsek: Metal deposition on Al oxide films. [Poster], Presented by IS. 77th CSC Conference and Exhibition, Winnipeg, May 30, 1994. Poster # 160.
66. P. Vanýsek, V. I. Birss and A. J. Zhang: Impedance study of oxide films at palladium electrodes. ECS Meeting San Francisco, 27 May 1994, paper # 933.
65. A. Zhang, P. Vanýsek and V. I. Birss: Thin oxide film on Pd: Nanostructure and growth. Poster at GRC, 16-21 January 1994
64. G. Sandí and Petr Vanýsek - Impedance spectroscopy studies of ion transport across polycarbonate membranes modified with ion exchanger. Pittcon 1994, paper 208, 28 February 1994. (by GS).
63. Seminar for analytical division at U of C: Electrochemistry without redox: Charge transport across immiscible electrolyte interface., October 1, 1993.

62. Petr Vanýsek: Interfacial tension studies of electrified liquid/liquid interfaces: Classical techniques for new data. The Electrochemical Society meeting, Honolulu, 18 May 1993, paper # 1962. [Published also in proceedings.]
61. G. Sandí and P. Vanýsek: Impedance and SEM studies of ion transport across Nuclepore membranes. The Southern Wisconsin and Chicago Sections of the Electrochemical Society, Graduate Student Symposium, Milwaukee, 16 April 1993. Presented by GS.
60. P. Vanýsek: Electrified interfaces between immiscible ionic solutions: Interfacial tension and related phenomena. The Pittsburgh Conference. 9 March 1993, Paper 386.
59. G. Sandí and P. Vanýsek: Impedance investigation of ion transport through Nuclepore membranes. A poster. Chicago Section of the Electrochemical Society, October 30, 1992. (By GS).
58. P. Vanýsek: Potentiometric and amperometric detection on liquid/liquid interfaces. Workshop on chemical sensors, Chicago Section of the Electrochemical Society, October 30, 1992.
57. I. Krejčí and P. Vanýsek: Interfacial tension studies on liquid/liquid interfaces using a bubble pressure method. The Electrochemical Society Meeting, Toronto, Canada, 11-16 October 1992, Paper # 682. (By IK)
56. P. Vanýsek, Z. Samec and A. Trojánek: Polarization phenomena at the interface between ionic membrane/electrolyte: A Nafion membrane between two electrolyte solutions. The Electrochemical Society Meeting, Toronto, Canada, 11-16 October 1992, Paper # 676.
55. P. Vanýsek: Charge transfer processes of liquid/liquid interfaces: First hundred years. The Electrochemical Society Meeting, Toronto, Canada, 11-16 October 1992, Paper # 667.
54. G. Sandí and P. Vanýsek: Impedance of poly(aniline) films electrochemically deposited from acid media. The Great Lakes Regional ACS meeting, Milwaukee, WI, 1-3 June 1992. (By GS)
53. I. Krejčí and P. Vanýsek: Transport of  $\text{Zn}(\text{OH})_4^{2-}$  ions across polyolefin microporous membranes. The Great Lakes Regional ACS meeting, Milwaukee, WI, 1-3 June 1992. (By IK)
52. P. Vanýsek and G. Sandí: Impedance and voltammetric characterization of electrochemically deposited poly(aniline) conducting films. The Electrochemical Society spring meeting. San Louis, MO, 18 May 1992, Paper #452. (By GS).

51. G. Sandí and P. Vanýsek: Impedance studies of acid environment of poly(aniline) films electrochemically deposited on platinum electrodes. ECS Graduate student symposium, DeKalb, IL 3 April 1992. (By GS)
50. I. Krejčí and P. Vanýsek: Effect of applied electrical potential on interfaces between two immiscible electrolytes. ECS Graduate student symposium, DeKalb, IL 3 April 1992. (By IK)
49. P. Vanýsek and I. Krejčí: Interfacial tension studies of interfaces between two immiscible electrolyte solutions. The Pittsburgh Conference. New Orleans, LA, March 13, 1992. Paper # 1259.
48. P. Vanýsek: Electrochemical studies of the boundary of two immiscible solutions. Seminar, Loras College, Dubuque, IA, 5 November 1991.
47. P. Vanýsek: Ion Transport Through Nafion Films. MUACC, Ann Arbor, MI., 25 October 1991.
46. P. Vanýsek: Electrochemical studies on the boundary of two immiscible solutions. Seminar, University of Wisconsin - Madison, 17 October 1991.
45. Giselle Sandí and Petr Vanýsek: Impedance investigation of polyaniline conductive films. Poster session organized by AMOCO. Presented by G.S. 4 October 1991
44. P. Vanýsek: Electrified immiscible liquid boundaries. ACS National Meeting. August 1991, New York.
43. P. Vanýsek, A. Trojánek, G. Sandí, A. F. Schreiner and D. R. Skotty: Charge transport studies on heterogeneous electrolyte interface: Voltammetric studies on interfaces of immiscible electrolytes. The ACS Central-Great Lakes Regional Meeting. Indianapolis, IN, 29 May 1991.
42. David Skotty and Petr Vanýsek: Characterization of polymer coated electrodes by impedance spectroscopy and signal noise analysis. Graduate student symposium (Presentation by D. Skotty). Madison, WI, 17 May 1991.
41. Antonín Trojánek and Petr Vanýsek: Polarization and resistance phenomena on Nafion thin film membranes. The Electrochemical Society meeting. Washington, DC., 10 May 1991.
40. P. Vanýsek: Interfacial ion transport. ONR contractors meeting, Airlie, VA, 29 April 1991.

39. P. Vanýsek: Low-frequency impedance studies on interfaces between two immiscible solutions of electrolytes. Pittsburgh Conference, Chicago, IL 4 March 1991. (Paper 052).
38. P. Vanýsek: Analytical applications of potentiometric and amperometric response of an interface between two immiscible liquids. FACSS, Cleveland, OH 10 October 1990.
37. P. Vanýsek: Research at NIU. A presentation at the Analytical Division NIU seminar. 14 September 1990.
36. P. Vanýsek: Potentiometric and voltammetric studies of ionic interfaces. A poster. Gordon Research Conference on Physical Electrochemistry, New London, NH, 3 July - 3 August 1990.
35. P. Vanýsek: Progress in research on liquid/liquid interfaces. Office of Naval Research Contractors' Meeting. San Diego, CA, 11- 12 July 1990.
34. P. Vanýsek, Irma C. Hernandez and Jianjiang Xu: Electrified interface between two immiscible liquids as a model for a lipid membrane: Behavior of a microinterface. The Electrochemical Society Meeting, Montreal, Canada, 10 May 1990.
33. Jianjiang Xu and P. Vanýsek: Voltammetry and potentiometry on interfaces of ionic conductors. Presentation (by JX) at the ECS Graduate Student Symposium, Purdue University, April 6, 1990.
32. P. Vanýsek: Charge transport through the interface between two immiscible liquids. Gordon Research Conference of Electrochemistry, 18 January 1990, Ventura, CA.
31. P. Vanýsek: Electrochemistry on liquid-liquid interfaces. The University of Milwaukee. A seminar. 11 December 1989.
30. Jianjiang Xu and Petr Vanýsek: Electrochemical properties of a gel-supported microinterface between two immiscible solutions. NIU Office of Sponsored Projects poster session. DeKalb, 15 November 1989.
29. P. Vanýsek: Electrochemistry on liquid-liquid interfaces. The University of Wisconsin - Oshkosh. A seminar. 10 November 1989.
28. P. Vanýsek: Ultramicroelectrodes - a modern tool of electroanalytical chemistry. Departmental colloquium, NIU. 23 October 1989.
27. J. Xu and P. Vanýsek: Cyclic voltammetry on the microinterface between two immiscible solutions. FACSS, Chicago 1-6 October 1989.

26. I. C. Hernandez and P. Vanýsek: Microinterface - an answer to microelectrodes in electrochemistry on immiscible liquid interfaces. FACSS, Chicago 1-6 October 1989.
25. Z. Sun and P. Vanýsek: Determination method of lead(II) based on the transfer across liquid/liquid interfaces. FACSS, Chicago 1-6 October 1989.
24. P. Vanýsek: Protein adsorption and transport at liquid/liquid interfaces. [A seminar]. Department of Bioengineering and Center for Biopolymers at Interfaces, University of Utah, Salt Lake City, 6 June 1989.
23. P. Vanýsek and I. C. Hernandez: Liquid-liquid interface as a model for a membrane channel transport. The Electrochemical Society Meeting, Los Angeles, CA May 1989, Paper 416.
22. Petr Vanýsek: Electrical impedance spectroscopy studies on liquid-liquid interfaces. Invited speaker. The Pittsburgh Conference, Atlanta, GA, 6 March 1989. Paper 216.
21. Petr Vanýsek: Interface between two immiscible electrolytes: A model for membrane transport. Office of Naval Research Contractors' Meeting. Elkridge, MD, 27-29 November 1988.
20. Petr Vanýsek: Electrochemical models for membrane and channel transport. A poster. MUACC, East Lansing, 3-5 November 1988.
19. Petr Vanýsek: Electrochemical models for membrane and channel transport. Poster presentation. NIU Office of Sponsored Projects poster session. DeKalb, 27 October 1988.
18. Deborah H. Wiegand and Petr Vanýsek: Electrochemistry of oxacyanine dyes: Potentiometry on liquid/liquid interfaces. Presentation (by DHW). Electrochemical Society Meeting. Atlanta, 15-20 May 1988.
17. Petr Vanýsek: Impedance studies on a (frozen electrolyte) / (liquid electrolyte) interface. Presentation. Electrochemical Society Meeting. Atlanta, 15-20 May 1988.
16. Deborah H. Wiegand and Petr Vanýsek: The interfacial potential in water/nitrobenzene system. Presentation, The Electrochemical Society Chicago Local Section Meeting. 8 April 1988. Loyola University, Chicago.
15. Deborah H. Wiegand and Petr Vanýsek: Measurement of diffusion of fluorescent dyes across a liquid-liquid interface. Presentation (by DHW). 14th FACSS Meeting, Detroit, 10 October 1987, paper # 180.

14. Umesh C. Bodani and Petr Vanýsek: Effect of protein concentration on impedance of liquid-liquid interface. Presentation. 14th FACSS Meeting, Detroit, 10 October 1987, paper # 172.
13. P. Vanýsek and D. H. Wiegand: Spectroscopic and fluorometric properties of carbocyanine dyes for use in potential studies. Lecture. 21st ACS Great Lakes Regional Meeting, Chicago, 10th-12th June 1987.
12. P. Vanýsek: Progress in liquid-liquid interface studies. Seminar. University of North Carolina, Chapel Hill, 14 May 1987.
11. P. Vanýsek and D. H. Wiegand: Potential-sensitive fluorescent dyes in electrochemistry of liquid-liquid interfaces. Lecture. Electrochemical Society Meeting. Philadelphia, 10 May 1987.
10. P. Vanýsek: Electrochemical measurements on interfaces between two immiscible electrolytes. Seminar. Western Illinois University, Macomb, IL, 16 March 1987.
9. P. Vanýsek: Electrochemistry on oil-liquid interfaces. ACS La Crosse - Winona section seminar. Winona, MN., 9 December 1986.
8. P. Vanýsek: Recruitment talk to undergraduate students - Analytical chemistry at NIU. University of Wisconsin - La Crosse, La Crosse, WI, 9 December 1987.
7. P. Vanýsek: Interface between two immiscible electrolytes in electroanalytical chemistry. Seminar in Chemical Sciences. (Invited talk) Brookhaven National Laboratory, 30 September 1986.
6. P. Vanýsek: Impedance measurements on the interface between two immiscible electrolytes. Lecture. Electrochemical Society Meeting. Boston, 4th-7th May 1986.
5. J. D. Reid, O. R. Melroy, W. E. Bronner, P. Vanýsek and R. P. Buck: New techniques in ion exchange surface electrochemistry. International conference on ion exchange, University of Cambridge UK, (Society of Chemical Industry), 15th-20th July 1984.
4. P. Vanýsek: An electrochemical study of the interface between two immiscible solutions. Seminar, Vanderbilt University, Nashville, Tennessee, 12 March 1984.
3. P. Vanýsek: Electrochemical properties of the interface between two immiscible liquids. Seminar, University of Texas at El Paso, Department of Chemistry, El Paso, 30 January 1984.
2. P. Vanýsek: Ion Transport Across the Liquid/Liquid Interface Mediated by Biologically Important Substances, Seminar, University of Utah, Department of Bioengineering, Salt Lake City, 3 February 1983.

1. P. Vanýsek: The polarography of anions with the electrolyte dropping electrode. Extended Abstract, The J. Heyrovský Memorial Congress on Polarography, Prague 1980.

#### NATIONAL SYMPOSIA ORGANIZED

P. Vanýsek, D. C. Hansen, V. Lvovich and M. E. Orazem, 221<sup>st</sup> ECS meeting, symposium Electrochemical Impedance Spectroscopy: Modeling and Interpretation. May 6-11, 2012 in Seattle, WA.

V. Lvovich, M. E. Orazem, P. Vanýsek and Y. Yoon, 220<sup>th</sup> ECS meeting, symposium Impedance Techniques: Diagnostics and Sensing Applications, October 9-14, 2011 in Boston, MA.

M. E. Overberg, J. Brown, P. Hesketh, W. Johnson, H. Ma, and P. Vanýsek. 218<sup>th</sup> ECS Meeting. Symposium State-of-the-Art Program on Compound Semiconductors 52 (SOTAPOCS 52). October 10-15, 2010, Las Vegas, NV.

P. J. Hesketh, J. L. Davidson, A. Longdergan, S. Shoji, P. Srinivasan, and P. Vanýsek. 218<sup>th</sup> ECS meeting Symposium Microfabricated and Nanofabricated Systems for MEMS/NEMS 9. October 10-15, 2010, Las Vegas, NV.

V. Lvovich, D. C. Hansen, M. E. Orazem, B. Tribollet, and P. Vanýsek, 216<sup>th</sup> ECS meeting. Symposium Impedance Techniques: Diagnostics and Sensing Applications. October 4-9 in Vienna, Austria.

P. Vanýsek, D. Hansen, and M. E. Orazem, 215<sup>th</sup> ECS meeting, Symposium Impedance in Electrochemistry: From Analytical Applications to Mechanistic Speculation 2. May 24-29, 2009 San Francisco, CA.

J. Li, R. Brown, C. Bruckner-Lea, D. Hatchet, M. Josowicz, and P. Vanýsek, 215<sup>th</sup> ECS meeting, Symposium Thirty-Five Years of Chemical Sensors: A Symposium in Honor of Professor Jiri Janata, May 24-29, 2009 San Francisco, CA.

P. J. Hesketh, C. Bock, F. Kitamura, M. Saito, G. Sandi, M. Tabib-Azar, and P. Vanýsek, 214<sup>th</sup> ECS meeting, Symposium Tutorials in nanotechnology: Focus on sensors, October 12, 2008 in Honolulu, HI.

V. Lvovich, P. Vanýsek and M. E. Orazem: 212<sup>th</sup> ECS meeting, Symposium on Impedance and Capacitive Based Sensors, October 7-12, 2007 in Washington, DC.

P. Vanýsek and M. Mirkin: 210<sup>th</sup> ECS meeting, Symposium on Electrochemistry at the Liquid-Liquid Interfaces, October 29 - November 3, 2006 in Cancun, Mexico.

P. Vanýsek, D. Hansen, and M. Orazem, 209<sup>th</sup> ECS meeting, Symposium Impedance in Electrochemistry: From analytical applications to mechanism speculations. Denver, May 8-11, 2006.

P. Vanýsek and G. Pillay, 208<sup>th</sup> ECS meeting, symposium on Environmental electrochemistry, Los Angeles, California, October 16-21, 2005.

V. Lvovic, P. Vanýsek and D. Hansen, 207<sup>th</sup> ECS meeting AE1 - IMPEDANCE BASED SENSORS, Quebec City, Canada, 15-20 May 2005.

P. Vanýsek, I. Fritsch, T. Ricco and J. Stetter, 206<sup>th</sup> ECS meeting, symposium on Electrophoresis and Microfluidics, Honolulu, Hawaii October 3-8, 2004.

P. Vanýsek, M. Philpott, I. Benjamin, T. Kakiuchi, 206<sup>th</sup> ECS meeting, symposium on Liquid-Liquid Interfaces and Phase Transfer Catalysis, Honolulu, Hawaii October 3-8, 2004.

M. Orazem, B. Tribolet, D. D. MacDonald and P. Vanýsek, 203<sup>rd</sup> ECS meeting, symposium on Transient Techniques in Electrochemistry, Paris, France, April 27 – May 2, 2003.

M. Philpott and P. Vanýsek, 202<sup>nd</sup> ECS meeting, symposium on Symposium on Liquid/Liquid Interfaces, Salt Lake City, UT, October 20-25, 2002.

P. Vanýsek et al., 200<sup>th</sup> ECS meeting, symposium on Chemical and Biological sensors and analytical electrochemical methods. San Francisco, CA, September 2-7, 2001.

E. D. Wachsman and P. Vanýsek, 198<sup>th</sup> ECS meeting, symposium on Solid State Ionic Devices II. Phoenix, AZ October 22-27, 2000.

R. P. Buck and P. Vanýsek; 197<sup>th</sup> ECS meeting, symposium on Electrochemical Impedances for Analysis of Chemical and Electrochemical Processes and Mechanisms, Toronto, Canada, May 14-18, 2000.

M. Butler, M. Aizawa, N. Yamazoe and P. Vanýsek, 196<sup>th</sup> ECS meeting, symposium on Chemical and Biological Sensors, Honolulu, HI, 17-22 October 1999.

J. Leddy and P. Vanýsek, 195<sup>th</sup> ECS meeting, symposium on New Directions in Electroanalytical Chemistry, Seattle, WA, May 1999.

P. Vanýsek and R. M. Corn, 193<sup>rd</sup> ECS meeting, symposium on Liquid-Liquid Interfaces, San Diego, CA, May 1998.