

VANDERBILT UNIVERSITY MEDICAL CENTER

CURRICULUM VITAE

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Name: Emil R. Petrusa, Ph.D.

Primary academic appointment: Professor
Department of Medical Education and Administration
Vanderbilt University School of Medicine

Present academic rank and title: Professor

Senior Evaluation Specialist
Office of Teaching and Learning in Medicine

Director
Center for Outcomes Research in Medical Education

Date of birth: January 30, 1949
Place of birth: Joliet, Illinois
Citizenship: United States

Education:

High School: Joliet Township High School

College: Western Illinois University, 1972, B.S. Degree

Graduate/Professional School: Western Illinois University, Macomb, 1974, M.S.,
Psychology

University of Utah, Salt Lake City, 1979, Ph.D., Educational
Psychology

Professional training and academic career:

2007 – present Professor
Department of Medical Education and Administration
Vanderbilt University School of Medicine

2001 – 2006 Associate Dean for Curriculum Assessment
Duke University School of Medicine

2000 – 2006 Associate Professor of the Practice of Medical Education
Department of Surgery
Duke University School of Medicine

Professional training and academic career (cont.)

1992 - 2001	Director Office of Medical Education Research and Development Duke University School of Medicine
1987 -1990	Associate Director for Research Office of Educational Development University of Texas Medical Branch Galveston, Texas
1986 - 1990	Associate Professor Department of Internal Medicine University of Texas Medical Branch Galveston, Texas
1979 - 1987	Senior Associate Office of Educational Development University of Texas Medical Branch Galveston, Texas
1979 - 1986	Assistant Professor Department of Internal Medicine University of Texas Medical Branch Galveston, Texas
1978 - 1979	Intern, Instructional Psychology Jordan Resource Center Sandy, Utah

Publications:

I. Refereed journals:

1. **Petrusa, E.R.** and Taylor, C.B. Self instruction in basic psychiatry and psychiatric diagnosis for primary care physician's assistant. *Journal of Personalized Instruction* 3:219-220, 1978.
2. **Petrusa, E.R.**, Taylor, C.B., Simmons, R. and Cabe, W. A three component course in psychiatry for primary care physician's assistants. *J Med Ed* 53:770-772, 1978.
3. **Petrusa, E.R.** and Yunker, R. Perspectives on the role of offices of medical education in the 1980's. *Res Med Ed* 19:58-63, 1980.
4. **Petrusa, E.R.**, Horvatich, P.K. and Guckian, J.C. Information mapping™ in introduction to clinical medicine. *Res Med Ed* 19:335-347, 1980.
5. **Petrusa, E.R.** Structuring clinical medical education: A problem-specific, performance-based framework. *Res Med Ed* 20:175-180, 1981.
6. **Petrusa, E.R.** and Weiss, B.G. Writing case reports: An educationally valuable experience for house officers. *J Med Ed* 57:415-417, 1982.
7. Marion, R., Niebuhr, B.R., **Petrusa, E.R.** and Weinholtz, D.: Computer based instruction in basic medical science education. *J Med Ed* 57:521-526, 1982.
8. **Petrusa, E.R.**, Yunker, R. and Brink, S. Evaluating continuity of care in primary care internal medicine programs. *S Med J* 76:786-789, 1983.
9. Yunker, R. and **Petrusa E.R.** Socialization of medical educators. *J Med Ed* 58:822-824, 1983.
10. **Petrusa, E.R.**, Guckian, J.C. and Perkowski, L.C. A multiple station objective clinical evaluation. *Res Med Ed* 23:211-216, 1984.
11. Farnam, J., Grant, A., Guernsey, B.G., Jorizzo, J.L. and **Petrusa, E.R.** Successful treatment of chronic idiopathic urticaria and angioedema with cimetidine alone. *The Journal of Allergy and Clinical Immunology* 73:842-845, 1984.
12. **Petrusa, E.R.** and Allensworth, D.C. Problem based attending rounds. *Medical Teacher* 7:203-214, 1985.
13. **Petrusa, E.R.**, Horvatich, P.K. and Guckian, J.C. A comparative evaluation of text formats in a medical school course. *Journal of Biocommunications* 12:18-25, 1985.
14. **Petrusa, E.R.** and Weiss, G.B. Writing case reports. *Resident & Staff Physician* 32:68-71, 1985.
15. **Petrusa, E.R.**, Blackwell, T.A., Rogers, L.P., Saydjari, C., Parcel, S., Guckian, J.C. An objective measure of clinical performance. *American Journal of Medicine* 83:34-42, 1987.

16. **Petrusa, E.R.** The effect of number of cases on performance on a standardized multiple-station clinical examination. *J Med Ed* 62:859-860, 1987.
17. Ainsworth, M.A., **Petrusa, E.R.**, Kluge, R.M. and Johanson, W.J. Ambulatory education for third year medical students in the Department of Internal Medicine. *Res Med Ed* 26:142, 1987.
18. **Petrusa, E.R.**, Blackwell, T.A., Carline, J., Ramsey, P., McGaghie, W., Colindres, R., Mast, T.A. and Soler, N.G. Improving clinical performance assessment: A multi-institutional trial of the OSCE. *Res Med Ed* 26:267-274, 1987.
19. Cohen, R., Rothman, A.I., Ross, J., Domovitch, E., Jamison, C., Jewitt, M., Keystone, J., Kulesha, D., MacInnes, A., McLeary, P., Ouchterlony, D., **Petrusa, E.**, Poldre, P., Robb, K., Rossi, M., Sarin, M., Shier, R.M. and Schwartz, M. A comprehensive assessment of graduates of foreign medical schools. *Annals RCPSC* 21:505-509, 1988.
20. Schreiner, D.T., **Petrusa, E.R.**, Rettie, C.S., Kluge, R.M. Improving compliance with preventive medicine procedures in a house staff training program. *S Med J* 81:1553-1557, 1988.
21. **Petrusa, E.R.**, Blackwell, T.A., and Ainsworth, M.A. Reliability and validity of an objective structured clinical examination for assessing the clinical performance of residents. *Arch. Intern. Med.* 150:573-577, 1990.
22. Ainsworth, MA, Roger, LP, Markus, JF, Dorsey, NK, Blackwell, TA, **Petrusa, ER:** Standardized patient encounters: A method for teaching and evaluation. *JAMA* 266:1390-1396, 1991.
23. **Petrusa, E.R.**, Patten, E.D., Markus, J.F. and Leveque, C.M. Evaluation of a case-based course in transfusion medicine for third year medical students. *Laboratory Medicine* , 22:475-476, 1991.
24. **Petrusa, E.R.**, Blackwell, T., Carline, J., Ramsey, P., McGaghie, W., Colindres R., Kowlowitz, V., Mast, T. and Soler, N.A. A multi-institutional trial of an objective structured clinical examination. *Teaching and Learning in Medicine* 3:86-94, 1991.
25. **Petrusa, E.R.** et. al. Consensus statement of the Researchers in Clinical Skills Assessment (RCSA) on the use of standardized patients to evaluate clinical skills. *Academic Medicine* 68:475-77, 1993.
26. **Petrusa, E.R.**, Reilly, C.G., Lee, L.S. Later is better: Projected USMLE performance during medical school. *Teaching and Learning in Medicine*, 7(3): 1995.
27. **Petrusa, E.R.** and Fullagar, P. K. A curriculum information management system. *Academic Medicine*, 70(5):429, 1995
28. McGaghie, W.C., Richards, B.F., **Petrusa, E.R.**, Camp, M., Harward, D.H., Smith, A.S., Willis, S.E. Development of a measure of medical faculty attitudes toward clinical evaluation of students. *Academic Medicine*, 70:47-51, 1995.

29. Richards, B.F., Rupp, R., Zaccaro, D.J., Cariaga-Lo, L, Harward, D., **Petrusa, E.R.**, Smith, A.C and Willis, S.E. Use of a standardized-patient-based clinical performance examination as an outcome measure to evaluate medical school curricula. *Academic Medicine*, 71(1 Supplement), S49-51, 1996.
30. Cook, R.L., Steiner, B.D., Smith, A.C., Evans, A.T., Willis, S.E., **Petrusa, E.R.**, Harward, D.H., Richards, B.F. Are medical students ready to provide HIV prevention counseling? *Academic Medicine*, 73: 342-346, 1998.
31. **Petrusa, E.R.**, Issenberg, S.B., Mayer, J.W., Felner, J.M. Brown, D.D., Waugh, R.A., Kondos, G.T., Gessner, I.H. and McGaghie, W.C. Implementation of a four-year multimedia computer curriculum in cardiology at six medical schools. *Academic Medicine*, 74:123-129, 1999.
32. Issenberg, I.B., McGaghie, W.C., Hart, I.R., Mayer, J.W., Felner, J.M., **Petrusa, E.R.**, Waugh, R.A., Brown, D.D., Safford, R.R., Gessner, I.H., Gordon, D.L. and Ewy, G.A. Simulation technology for health care professionals skills training and assessment. *JAMA*, 282(9):807-866, 1999.
33. Mavis, B., Henry, R., Hoppe, R., Mennin, S., **Petrusa, E.** \$100,000 shopping spree: The home version. *Teaching and Learning in Medicine*, 11(1):44-47.,1999.
34. Issenberg, S.B., **Petrusa, E.R.**, McGaghie, W.C., Felner, J.M. ,Waugh, R.A., Nash, I.S and Hart I.R. Effectiveness of a computer-based system to teach bedside cardiology. *Academic Medicine*, 74(10): 93-95, 1999.
35. Schenk, M., Popp, S., Bridge, P., Gallagher, R., **Petrusa, E.R.**, Frank, R.R. Effectiveness of an occupational and environmental medicine curriculum as indicated by evaluation of medical student performance on an objective structured clinical examination. *Journal Occupational and Environmental Medicine*, 41(11):954-959, 1999.
36. Kane, M. G., **Petrusa, E. R.**, Carter, R.D. and Schmidt, M.B. Is faculty review of applications worth the effort? *Perspectives on Physician Assistant Education*. 11(3):157-60, 2000.
37. Kaufman, R.E. & **Petrusa, E.R.** Duke University School of Medicine. *Academic Medicine* 79(9 Supplement), S265-7, 2000.
38. **Petrusa, E.R.**, Hales, J., Wake, L., Harward, D.H., Hoban, D. and Willis, S. Prediction accuracy and financial savings of four screening tests for a sequential test of clinical performance, *Teaching and Learning in Medicine*, 12(1), 4-13, 2000.
39. McGaghie WC. Issenberg SB. Gordon DL. **Petrusa ER.** Assessment instruments used during anaesthetic simulation. *British Journal of Anaesthesia*. 87(4):647-8, 2001.
40. Sako EY. **Petrusa ER Jr.** Paukert JL. Factors influencing outcome of the American Board of Surgery Certifying examination: an observational study. *Journal of Surgical Research*. 105(2):75-80, 2002.

41. Issenberg SB, McGaghie WC, Gordon DL, Symes S, **Petrusa ER**, Hart IR, Harden RM. Effectiveness of a cardiology review course for internal medicine residents using simulation technology and deliberate practice. *Teaching and Learning in Medicine* 2002;14:223-28.
42. Gordon DL, Issenberg SB, LaCombe DL, Vega AI, Reynolds PS, Harden RM, McGaghie WC, Petrusa ER, Hart IR. Improvement in paramedic examination skills following a stroke course. *Stroke* 2001;32:372-373.
43. **Petrusa ER**. Taking standardized patient-based examinations to the next level. *Teaching and Learning in Medicine* 16(1):98-110, 2004.
44. Issenberg SB, McGaghie WC, **Petrusa ER**, Gordon DL and Scalese RJ. Features and uses of high-fidelity medical simulations that lead to effective learning - a BEME systematic review. *Medical Teacher* 27(1): 10-28, 2005.
45. Milos, RT, Gordon, DL, **Petrusa , ER**, Iseenberg, SB, Lewis, S, Reynolds, P, McGaghie, WC. Development of a Reliable Multimedia Computer-based Measure of Clinical Skills in Bedside Neurology. *Academic Medicine* 80(10):S71-74, 2005.
46. Gordon, DL, Issenberg, SB, Gordon, MS, Lacombe, D, McGaghie, WC, Petrusa, ER. Stroke training of prehospital providers: an example of simulation enhanced blended learning and evaluation. *Medical Teacher* 27(2):1140122, 2005
47. Miller, GT, Scott, JA, Issenberg, SB, Petrusa, ER, Brotons, AA, Gordon, DL, McGaghie, WC, Gordon, MS. Development, implementation and outcomes of a training program for responders to acts of terrorism. *Prehospital Emergency Care* 10(2):239-246, 2006.
48. McGaghie, W.C, Issenberg, S.B.**Petrusa, E.R.**, Scalese, R. Effect of Practice on Standardized Learning Outcomes in Simulation-Based Medical Education. *Medical Education* 40:792-797, 2006.
49. Clay AS. Petrusa E. Harker M. Andolsek K. Development of a web-based, specialty specific portfolio. *Medical Teacher*. 29(4):311-6, 2007.
50. Clay AS. Que L. Petrusa ER. Sebastian M. Govert J. Debriefing in the intensive care unit: a feedback tool to facilitate bedside teaching. *Critical Care Medicine*. 35(3):738-54, 2007.

II. Refereed Publications (full articles)

51. **Petrusa, E.R.** Ophthalmoscopy: A self-paced unit for physicians' assistants. In Personalized Instruction in Education Today, Sherman, J.G., Ruskin, R.S., and Lazar, R.M. (Eds.), pp. 227-234. San Francisco: San Francisco Press, 1978.
52. **Petrusa, E.R.**, Blackwell, T.A., Parcel, S. and Saydjari, C. Psychometric properties of the objective clinical examination (OSCE) as an instrument for final examination. In Newer

- Developments in assessing clinical competence, Hart, I. , Harden, R., and Walton, J. (Eds.), pp. 181-191., Montreal, Quebec, Canada: Can-Heal Publications, 1986.
53. Blackwell, T.A., **Petrusa, E.R.** and Saydjari, C. Performance in general internal medicine: Comparative study using an objectively scored evaluation system. In Newer Developments in Assessing Clinical Competence, Hart, I.R., Harden, R.M. and Walton, W.J. (Eds.), pp. 229-237, Montreal, Quebec, Canada: Can-Heal Publications, 1986.
 54. **Petrusa, E.R.**, Blackwell, T.A. and Ainsworth, M.A. Performance of internal medicine house staff on a short station OSCE. In Further Developments in Assessing Clinical Competence, Hart, I.R., and Harden, R.M., (Eds.), pp. 598-608. Montreal: Can-Heal Publications, 1987.
 55. Dorsey, N.K., **Petrusa, E.R.** and Kluge, R. Establishing a standard for the final clinical exercise in the introduction to clinical medicine course. In Teaching and Assessing Clinical Competence Bender, W., Hiemstra, R.J., Scherpbier, A.J.J.A. and Zwiestra , R.P. (Eds.), pp. 213-217 , BoekWerk Publications, Groningen, The Netherlands, 1989.
 56. Perkowski-Rogers, L., Markus, J., **Petrusa, E.**, Sajid, A., Payer, A. and Kitay, J. Assessing clinical competence: case- specific analyses of a two-year project. In Teaching and Assessing Clinical Competence , Bender, W., Hiemstra, R.J., Scherpbier, A.J.J.A and R.P. Zwiestra (Eds.), pp. 364-368, BoekWerk Publications, Groningen, The Netherlands, 1989.
 57. Blackwell, T.A., **Petrusa, E.R.**, Carline, J., Ramsey, P., McGaghie, W., Colindres, R., Mast, T.A., Soler, N.G. Standardization and administration of an objectively structured clinical exam at four geographically diverse medical universities. In Teaching and Assessing Clinical Competence. Bender, W. , Hiemstra, R.J. , Scherpbier, A.J.J. A. and Zwiestra, R.P. (Eds.), pp. 230-232, BoekWerk Publications, Groningen, The Netherlands, 1989.
 58. **Petrusa, E.R.**, Blackwell, T.A., Carline, J., Ramsey, P., McGaghie, W., Colindres, R., Mast, T.A., Soler, N.G. Case variability in a common OSCE given at four medical schools. In Teaching and Assessing Clinical Competence. Bender, W. , Hiemstra, R.J., Scherpbier, A.J.J.A and Zwiestra, R.P. (Eds.), pp. 178-183, BoekWerk Publications, Groningen, The Netherlands, 1989.
 59. Callaway, M.R., **Petrusa, E.R.**, Rogers, L.P. The effects of rest intervals on performance on a standardized multiple-station clinical examination. In Current Developments in Assessing Clinical Competence, Hart, I.R., Harden, R.M., and Des Marchais, J. (Eds.), pp. 130-136, Ottawa, IRH Medical Ltd., 1992.
 60. Blackwell, T.S, Dorsey, N.K., Ainsworth, M. and **Petrusa, E.R.** Comparison of intern performance predictors. In Current Developments in Assessing Clinical Competence, Hart, I.R., Harden, R.M., and Des Marchais, J. (Eds.), pp. 116-117, Ottawa, IRH Medical Ltd., 1992.
 61. **Petrusa, E.R.**, Camp, M.G., Harward, D.H., Richards, B.F., Smith, A.C. III, Willis, S.E. and Bolton, C.A. Measuring the doctor-patient relationship and communication in a clinical performance examination. In Proceedings of The Ottawa Conference on Medical Education , Rothman, A.I. and Cohen, R. (Eds.), pp 259-261, Toronto, June 1994.
 62. **Petrusa, E.R.**, Camp, M.G., Harward, D.H., Richards, B.F., Smith, A.C. III, and Willis, S.E. Cases, clinical competencies and level of performance in CPX. In Proceedings of The Ottawa

- Conference on Medical Education , Rothman, A.I. and Cohen, R. (Eds.), pp 100-103, Toronto, June 1994.
63. **Petrusa, E.R.** OSCEs and other multiple-station, SP-based examinations in the United States. In Proceedings of The Ottawa Conference on Medical Education , Rothman, A.I. and Cohen, R. (Eds.), pp 298-300, Toronto, June 1994.
 64. Smith, A.C., **Petrusa, E.R.**, Harward, D.H., Richards, B.F., and Willis, S.E. Understanding the context for a clinical performance exam: faculty response to the exam and its data. In Proceedings of The Ottawa Conference on Medical Education , Rothman, A.I. and Cohen, R. (Eds.), pp 123-128, Toronto, June 1994.
 65. Willis, S.E., Camp, M.G., Harward, D.H., **Petrusa, E.R.** Smith, A.C., III, McGaghie, W.C., and Richard, B.F. Advantages and disadvantages of interinstitutional collaboration for administration of a regional clinical practice examination. In Proceedings of The Ottawa Conference on Medical Education, Rothman, A.I. and Cohen, R. (Eds.), pp 129-131, Toronto, June 1994.
 66. Camp, M.G., Cariaga-Lo, L.D., Harward, D.H., **Petrusa, E.R.**, Richards, B.F., Smith, A.C. III, and Willis, S.E. Comparison of students' performance on biomedical vs. psychosocial CPX cases. In Proceedings of The Ottawa Conference on Medical Education , Rothman, A.I. and Cohen, R. (Eds.), pp 672-263, Toronto, June 1994.
 67. **Petrusa, E.R.**, Fullagar, P.K. Curriculum information management system: Structure and process of analysis. Proceedings of the Seventh Ottawa Conference on Medical Education, Maastricht, The Netherlands, 1996.
 68. Lee, L.S., Froh, R.C., **Petrusa, E.R.** Assessing the implementation of teaching portfolios in the academic medical center. Proceedings of the Seventh Ottawa Conference on Medical Education, Maastricht, The Netherlands, 1996.
 69. Fullagar, P.A., Reilly, C.G., Sheline, B.L., **Petrusa, E.R.** Student surveys: Use of the world wide web (WWW) for access and data collection. Proceedings of the Seventh Ottawa Conference on Medical Education, Maastricht, The Netherlands, 1996.
 70. Tetel-Hanks, J., **Petrusa, E.R.** Importance of and strategies for more authentic SP portrayal. Proceedings of the Seventh Ottawa Conference on Medical Education, Maastricht, The Netherlands, 1996.
 71. Gordon, M, Brown, D.D., Ewy, G.A., Felner, J.M., Gessner, I.H., Issenberg, S. B., Kondos, G. T., Mayer, J.W., McClellan, J., McGaghie, W.C., **Petrusa, E.R.**, Rich, S., Sachdeva, A.K., Safford, R. R., and Waugh, R.A. "Harvey," the cardiology patient simulator and the Umedic multimedia computer curriculum. Proceedings of the Eighth Ottawa Conference on Medical Education, Philadelphia, 1998.
 72. Issenberg, S.B., Brown, D.D., Ewy, G.A., Felner, J.M., Gessner, I.H., Gordon, M.S., Hart, I.R., Mayer, J.W., McGaghie, W.C., **Petrusa, E.R.**, Safford, R.E. and Waugh, R.A. Development of multimedia, computer-based measures of clinical skills in bedside cardiology. Proceedings of the Eighth Ottawa Conference on Medical Education, Philadelphia, 1998.

73. **Petrusa, E.R.** and Hales, J R. Evaluation of two approaches toward a paperless CPX. Proceedings of the Eighth Ottawa Conference on Medical Education, Philadelphia, 1998.

In press

Wright, MC, Petrusa, ER, Griffin, KL, Hobbs, EW, Phillips-Bute, BG and Taekman, JM. Validity of observer ratings of team coordination skills in medical educational and clinical practice. Accepted for publication in *Medical Teacher*.

Under Review

Halperin, E.C., **Petrusa, E.R.** Factors that predict high and low academic performance in required basic science and clinical science courses in medical school. Submitted to *TLM*

Gotterer GS, Petrusa ER, Gabbe SG. Miller BA. Enhancing competence in the skills of the clinical transaction based on presenting problems. Submitted to *Academic Medicine*.

Miller BA, Wiggleton C, Petrusa, ER. The experience of moral distress in medical students. Submitted to *JAMA*.

III. Non-refereed Publications

1. **Petrusa, E.R.** Ophthalmoscopy: A self-instructional unit for physician assistants. Utah MEDEX Project, Department of Family and Community Medicine, University of Utah Medical Center. 1976.
2. Taylor, C.B. and **Petrusa, E.R.** Research diagnostic criteria for 25 psychiatric diagnoses: A training manual. Salt Lake City, 1977.
3. Taylor, C.B. and **Petrusa, E.R.** Self instruction in basic psychiatry. Utah MEDEX Project, Department of Family and Community Medicine, University of Utah Medical Center. 1977.
4. **Petrusa, E.R.** and Segal, R.A. Hemoptysis. Prepared for the American Academy of Physician Assistants Committee for Continuing Medical Education. Washington, D.C. 1977.
5. Stone, J.B., Endo, G.T., Spear, J., Rivera, O.A. and **Petrusa, E.R.** Visual and auditory disability: An overview for the rehabilitation counselor. Salt Lake City: Human Resource Institute. 1977.
6. **Petrusa, E.R.** Remarks in Response to the 1993 AERA Division I Vice Presidential Address given by Dr. Terrill Mast, New Orleans, Louisiana, April 1993. Published in *Professions Education Research Quarterly* 14, (4), 1993.

III. Chapters in Books

Objective Structured Clinical Examinations (Chapter 22) in Norman, G., van der Vleuten, C. and Newble, D. International Handbook on Research in Medical Education. Kluwer. March 2002.

IV. Research Presentations:

1. **Petrusa, E.R.:** A self-paced unit for physician's assistants. Presented at the Third National Conference on Personalized Instruction, Washington, D.C. May 1-4, 1976.
2. **Petrusa, E.R.,** Felton, H., Wilson, W.A., Asahina, B. and Gerity, P.E. A system for monitoring and promoting student progress during the preceptorship. Presented at the Sixth Annual Conference of the Association of Physician Assistant Programs, Las Vegas, April 7-10, 1978.
3. **Petrusa, E.R.,** Horvatic, P.K. and Guckian, J.C. Information mapping in Introduction to Clinical Medicine. Presented at the Nineteenth Annual Conference of the Association of American Colleges. Washington, D.C. October 27-November 1, 1980.
4. **Petrusa, E.R.** and Yunker, R. Perspectives on the roles of offices of medical education in the 1980's. Presented at the Nineteenth Annual Conference of the Association of American Medical Colleges. Washington, D.C. October 27-November 1, 1980.
5. **Petrusa, E.R.,** Felton, H. and Wilson, W.A. Stages of Practice: A model for clinical education of new health practitioners. Presented at the American Educational Research Association Annual Meeting, Los Angeles. April 13-17, 1981.
6. Yunker, R., Brink, S. and **Petrusa, E.R.** A National survey of continuity evaluation methods in primary care programs. Presented at the annual meeting of the Ambulatory Pediatric Association, San Francisco. April, 1981.
7. **Petrusa, E.R.** A proposal for experimental evaluation of experiential learning of sophomore medical students in simulated patient care situations. Presented at the meeting of the Southern Regional Group on Medical Education. Richmond, VA. April 14-16, 1982.
8. **Petrusa, E.R.,** Swanson, D.B., Abdulla, A.M. and Schwartz, W. Use of Computers in medical problem solving. Presented at the Group on Problem-Based Learning. Washington, D.C. November 11-12, 1982.
9. Levine, H.G., **Petrusa, E.R.** and Markus, J.F. Use of simulations to improve medical education. Presented at the Group on Medical Education Workshop, AAMC. Washington, D.C. November 6-11, 1982.
10. Yunker, R. and **Petrusa, E.R.** The socialization of medical educators. Presented at the Third Annual Conference for Generalists in Medical Education. Washington, D.C. November 7-8, 1982.

11. **Petrusa, E.R.** Interviewing and Communication Skills for Medical Students: Course development and evaluation. Presented at the Third Annual Conference for Generalists in Medical Education. Washington D.C. November 7-8, 1982.
12. Kluge, R.M., **Petrusa, E.R.**, Wagnon, B.K., O'Malley, M.S. and Fletcher, S.W. Factors influencing patient priorities for health care. Southern Regional meeting of the Society for Research and Education in Primary Care Internal Medicine. New Orleans. January 19, 1984.
13. Koeppe, P.R., **Petrusa, E.R.**, Wagnon, B.K. and Kluge, R.M. The relationship of longevity and weight in the elderly. Southern Regional meeting of the Society for Research and Education in Primary Care Internal Medicine. New Orleans. January 19, 1984.
14. Farnam, J., Grant, J.A., Guernsey, B. and **Petrusa, E.R.** Successful treatment of chronic urticaria and angioedema with cimetidine alone. American Academy of Allergy and Immunology. Chicago. March 4-7, 1984.
15. **Petrusa, E. R.**, Guckian, J.C. and Perkowski, L.C. A multiple station objective clinical evaluation. Presented at the Twenty-third Annual Conference of the Association of American Medical Schools. Chicago. October 27-November 1, 1984.
16. **Petrusa, E.R.**, Guckian, J.C., Blackwell, T.A., Perkowski, L.C. and Wagnon, B. Clinical performance in medicine: An objectively scored evaluation system. Presented at the Second Annual Conference on Teaching Internal Medicine. San Antonio, Texas. December 12-14, 1984.
17. Blackwell, T.A., **Petrusa, E.R.** and Saydjari, C.L. Performance in General Internal Medicine: Comparative Study Using an Objectively Scored Evaluation System. World Federation for Medical Education. Ottawa, Ontario, Canada. July, 1985.
18. **Petrusa, E.R.**, Blackwell, T.A., Parcel, S. and Saydjari, C.L. Psychometric Properties of the Objective Clinical Exam as an Instrument for Final Evaluation. World Federation for Medical Education. Ottawa, Ontario, Canada. July 1985.
19. Swanson, D.B., Hart, I.R., Williams, R.G., Wooliscroft, J. and **Petrusa, E.R.** Assessment of Clinical Competence with the Objective Structured Clinical Exam. Association of American Medical Colleges. Washington, D.C. October 26-31, 1985.
20. Swanson, D.B., Norcini, J. and **Petrusa, E.R.** Applications of Generalizability Theory to Measurement of Clinical Competence. Sixth National Conference for Generalists in Medical Education. Washington, D.C. October 26-27, 1985.
21. Blackwell, T.A., **Petrusa, E.R.** and Saydjari, C.L. Computer Based Documentation of Procedural Skills. Third Annual Symposium on Teaching Internal Medicine. Johns Hopkins Medical Institution. Baltimore, Maryland. December 1985.
22. Schreiner, D.T., **Petrusa, E.R.**, Rettie, C.S. and Kluge, R.M. Improving Compliance with Preventive Medicine Procedures in a Housestaff Training Program. Southern Regional Meeting of the Society for Research and Education in Primary Care in internal Medicine. New Orleans, Louisiana. February 7, 1986.

23. **Petrusa, E.R.**, Blackwell, T.A., Ramsey, P., Carline, J., Mattern, W., McGaghie, W., Soler, N. and Mast, T. Consortium on Improving Clinical Evaluations. Plenary Session of the Group on Medical Education at the Annual Meeting of the Association of American Medical Colleges. New Orleans, Louisiana. October 25-31, 1986.
24. **Petrusa, E.R.**, Blackwell, T.A., Ainsworth, M.A. Performance of internal medicine house officers on a short station OSCE. Presented at the Second Ottawa Conference on Newer Developments in the Assessment of Clinical Competence. Ottawa, Ontario. June 27-30, 1987.
25. **Petrusa, E.R.**, Blackwell, T.A., Carline, J., Ramsey, P., McGaghie, W., Colindres, R., Mast, T.A. and Soler, N.G. Improving clinical performance assessment: A multi-institutional trial of the OSCE. Symposium presented at the 98th meeting of the Association of American Medical Colleges. Washington, D.C. November 6-12, 1987.
26. Ainsworth, M.A., **Petrusa, E.R.**, Kluge, R. and Johanson, W.G. Ambulatory education for third year medical students in the Department of Internal Medicine. Presented at the 98th meeting of the Association of American Medical Colleges. Washington, D.C. November 6-12, 1987.
27. Camp, G., Bouhuijs, P., Irby, D.M. and **Petrusa, E.R.** Structuring the clinical experience: Clinical education post-GPEP. Presented at the 8th annual meeting of the Generalists in Medical Education. Washington, D.C. November 8-9, 1987.
28. Ainsworth, M.A., **Petrusa, E.R.**, Kluge, R.M. and Johanson, W.G. A program of ambulatory education for third year medical students in the internal medicine. Presented at the 4th Annual Symposium for Teaching Internal Medicine. Philadelphia, Pennsylvania. December 3-4, 1987.
29. **Petrusa, E.R.** Issues in integrating new medical curricula: Transfusion Medicine as an example. Presented at the 5th Annual Meeting of Transfusion Medicine Academic Programs, Bethesda, Maryland. June 2-4, 1988.
30. Feltovich, J., Mast, T.A., Soler, N.G., **Petrusa, E.R.** and Ainsworth, M.A. The design of teaching programs for ambulatory settings. Presented at the 9th Annual Conference for Generalists in Medical Education. Chicago, Il. November 13-14, 1988.
31. Williams, R.G., Kopelow, M., **Petrusa, E.R.**, Stillman, P.L. and Travis, T.A. Clinical assessment using standardized patients encounters: An environmental impact analysis. Presented at the Association of American Medical Colleges Annual Meeting. Chicago, Illinois. Nov. 11-17, 1988.
32. Blackwell, T.A., Daly, T. and **Petrusa, E.R.** Medical students perceptions of internal medicine versus other specialties. Presented at the Society of General Internal Medicine. Arlington, Virginia. April 26, 1989.
33. Dorsey, N.K., **Petrusa, E.R.** and Kluge, R. Establishing a standard for the final clinical exercise in the introduction to clinical medicine course. Presented at the Teaching and Assessing Clinical Competence Conference. Groningen, The Netherlands. May 22-24, 1989.

34. Perkowski-Rogers, L., Markus, J., **Petrusa, E.**, Sajid, A., Payer, A. and Kitay, J. Assessing clinical competence: case- specific analyses of a two-year project. Presented at the Teaching and Assessing Clinical Competence Conference. Groningen, The Netherlands. May 22-24, 1989.
35. Blackwell, T.A., **Petrusa, E.R.**, Carline, J., Ramsey, P., McGaghie, W., Colindres, R., Mast, T.A., Soler, N.G. Standardization and administration of an objectively structured clinical exam at four geographically diverse medical universities. Presented at the Teaching and Assessing Clinical Competence Conference. Groningen, The Netherlands. May 22-24, 1989.
36. **Petrusa, E.R.**, Blackwell, T.A., Carline, J., Ramsey, P., McGaghie, W., Colindres, R., Mast, T.A., Soler, N.G. Case variability in a common OSCE given at four medical schools. Presented at the Teaching and Assessing Clinical Competence Conference. Groningen, The Netherlands. May 22-24, 1989.
37. Callaway, M.R., **Petrusa, E.R.**, Rogers, L.P. The effects of rest intervals on performance on a standardized multiple-station clinical examination. Presented at the 1990 Ottawa Conference on Assessing Clinical Competence, Ottawa, Canada, July 8, 1990.
38. Blackwell, T.S, Dorsey, N.K., Ainsworth, M. And **Petrusa, E.R.** Comparison of intern performance predictors. Presented at the 1990 Ottawa Conference on Assessing Clinical Competence, Ottawa, Canada, July 9, 1990.
39. **Petrusa, E.R.** What have we learned about students/residents from standardized patient examinations? Plenary Session for the Group on Educational Affairs (GEA), Association of American Medical Colleges Annual Meeting. San Francisco, California, October 22, 1990.
40. **Petrusa, E.R.** Scoring issues in standardized patient examinations (discussant). Research in Medical Education, Association of American Medical Colleges Annual Meeting. San Francisco, California, October 24, 1990.
41. Wolf, F.M., Cimino, J. J., Marks, E.B., Bagdoyan, H., Buchanan, B., DeGeorges, K.M., Eaton, E.K., Fine, J., **Petrusa, E.**, Zimmerman, J.L.: Summary of the Integrated Academic Information Management System (IAIMS) Consortium Working Group's Report on the Impact of IAIMS. Presented at the annual IAIMS Consortium Workshop, Cincinnati, October 1991.
42. **Petrusa, E.R.** and Reilly, Carol G.: Later is Better: Projected USMLE Performance During Medical School. Presented at RIME Conference, Association of American Medical Colleges Annual Meeting. New Orleans, Louisiana, November 1992.
43. **Petrusa, E.R.**, Michener, J.L., Cabel, C., Regan-Smith, M. and Phillips, G.: Integrating Basic and Clinical Science: Conceptual and Educational Issues , Association of American Medical Colleges, Group on Educational Affairs, panel. New Orleans, Louisiana, November 1992.
44. Klass, D.J., LaDuca, A., Barrows, H.S., Vu, N.V., **Petrusa, E.R.**, Willis, S., Camp, M. G. and Engel, J.D. Planning and Blueprinting Clinical Practice Examinations , Association of American Medical Colleges, RIME Symposium, New Orleans, Louisiana, November 11, 1992.

45. **Petrusa, E.R.** Approaches to Setting Standards for Performance Based Assessments. Presented at the annual meeting of The Society of Directors of Research in Medical Education, North Hatley, Quebec, June 1993.
46. **Petrusa, E.R.** SP-Based Examinations in Medical Schools: A Review of the Literature. Presented to the Society of Directors of Research in Medical Education, Lake Tahoe, June 1994.
47. **Petrusa, E.R.**, Ghosn, S.J., Michener, J.L., Axelrod, D., Markson, L.E. Initiatives in Preparing Students for Practice within a Cost-Conscious Managed Care Environment. Association of American Medical Colleges, GEA Panel, Washington, DC, October 28, 1995.
48. **Petrusa, E.**, Hoppe, R., Henry, R., Menin, S., Assessing Medical Students: The \$100,000 Shopping Spree., GEA Panel, Association of American Medical Colleges, San Francisco, CA, 1996.
49. Dauphine, D., Swanson, B. **Petrusa, E.R.** RIME and Reason: Why Do We Do This? Where Do We Go From Here? RIME Symposium Plenary Session, Association of American Medical colleges, San Francisco, CA, 1996.

Invited Presentations:

1. **Petrusa, E.R.** Assessment of clinical Performance. Fourth Cooperative Medical Education Conference. Guadalajara, Mexico. April 15-20, 1985.
2. **Petrusa, E.R.** Computers in Preclinical Education. Fourth Cooperative Medical Education Conference. Guadalajara, Mexico. April 15-20, 1985.
3. **Petrusa, E.R.** Evaluation Technology: New Tools for Excellence. Tulsa Medical College. Tulsa, Oklahoma. April 26, 1985.
4. **Petrusa, E.R.** An Objective Measure of Clinical Performance. Presented at the XI Pan American Conference on Medical Education. Mexico City, Mexico. December 1-3, 1986
5. **Petrusa, E.R.** OSCEs: What's all the fuss and what can we do about it anyway? Presented to the faculty of James A. Quillon School of Medicine, East Tennessee State University, Johnson City, Tennessee, October 29, 1990.

V. Published Abstracts:

1. **Petrusa, E.R.**, Levine, H.G., Allensworth, D.C., Scurry, M.T., Peake, R., Koeppe, P. and Rahr, R. Attitudinal barriers to training in primary care. In Mack Lipkin, Jr. and Kerr L. White (Eds). Primary Care Research in 1980. New York: Rockefeller Foundation. 49, 1981.
2. Rahr, R., Christensen, G., Williams, I., Allensworth, D.C., **Petrusa, E.R.**, Koeppe, P. and Peake, R. Group approach to primary care internal medicine: Physician, physician's assistant, and registered nurse. In Lipkin, M. Jr. and White, K.L. (Eds), Primary Care Research in 1980. New York: Rockefeller Foundation. 181, 1981.

3. Yunker, R., Brink, S. and **Petrusa, E.R.** National survey of continuity evaluation methods in residency primary care programs. In Lipkin, M. Jr. et al (Eds), Primary Care Research in 1981. New York: Rockefeller Foundation. 41, 1982.
4. Farnam, J., Grant, J.A., Guernsey, B.G., Jorizzo, J.L. and **Petrusa, E.R.** Successful treatment of chronic urticaria and angioedema with cimetidine alone. *Journal of Allergy and Clinical Immunology* 73:182, 1984.
5. **Petrusa, E.R.**, Blackwell, T.A., Guckian, J.C., Perkowski, L.C. and Wagon, B.K. Clinical performance in general internal medicine: Comparative study using an objectively scored evaluation system. *Clinical Research* 32(2):653A, 1984.
6. Koeppe, P.R., **Petrusa, E.R.**, Wagon, B.K. and Kluge, R.M. The relationship of longevity and weight in the elderly. *Clinical Research* 32(2):650A, 1984.
7. **Petrusa, E.R.**, Patten, E.D., Leveque, C.M., Markus, J.F. Transfusion medicine: A case-based course for third year medical students. *Transfusion* 28:43S, 1988.
8. **Petrusa, E.R.** and Reilly, C.G. Later is Better: Projected USMLE Performance During Medical School. RIME, Association of Academic Medical Colleges, Washington, D.C., 1993.
9. **Petrusa, E.R.** Multi-Center Evaluation of a Four Year Multimedia Curriculum in Cardiology. RIME, Association of Academic Medical Colleges, San Francisco, CA 1996.
10. **Petrusa, E.R.**, Richard, B.F., Frye, A., Smith, A., Harward, D., Willis, S.E. Clarification of Assumptions Underlying the Evaluation of Interpersonal Skills with SPs. RIME, Association of American Medical Colleges, San Francisco, CA, 1996.
11. Richards, B., Zaccaro, D., Cariaga-Lo, L., Harward, D., Smith, A., **Petrusa, E.**, Willis, S. Examinee Characteristics and CPX Performance. Research in Medical Education, Association of Academic Medical Colleges, San Francisco, CA, 1996.
12. Scott, JA, Miller GT, Brotons AA, Gordon DL, Issenberg SB, Gordon MS, McGaghie WC, Petrusa ER. Out-of-Hospital Emergency Response to Terrorism Training: Cognitive Results of a Simulation-Enhanced Curriculum. *Annals of Emergency Medicine* October 2003 42:4 S105 .
- 13.

VI. Panels, Workshops, and Posters:

Workshops

1. **Petrusa, E.R.** (Program Director & Multiple Presentations) Working Conference on the Assessment of Clinical Performance. Galveston, Texas. April 9-13, 1985.
2. **Petrusa, E.R.** and Markus, J. Workshop on Medical Education. Kuwait University Medical School. Kuwait City, Kuwait. May 10-16, 1985.

3. **Petrusa, E.R.**, Sajid, A.W., Levine, M. and Guckian, J.C. Objective Structured Clinical Exams Workshop. Annual meeting of the Association of American Medical Colleges. Washington, D.C. October 26-31, 1985.
4. **Petrusa, E.R.**, Blackwell, T.A., Parcel, S. The Objective Structural Clinical Examination Workshop. Annual Meeting of the Association of American Medical Colleges. New Orleans, Louisiana. October 25-31, 1986.
5. **Petrusa, E.R.** (Director and multiple presentations) 2nd Working Conference on the Assessment of Clinical Performance. Galveston, Texas, May 13-15, 1987.
6. **Petrusa, E.R.** (Director and multiple presentations) 3rd Working Conference on the Assessment of Clinical Performance. Galveston, Texas, April 25-27, 1988.
7. Sajid, A.W., **Petrusa, E.R.**, Markus, J.F., Rogers, L.P. and Rettie, C.S. Student assessment: Measuring competence and stimulating change. Workshop presented at the International Symposium on Evaluation in Medical Education. Beer Sheva, Israel. May 25-27, 1987.
8. **Petrusa, E.R.** Assessment of clinical decision-making skills workshop. Ohio State School of Medicine, Columbus, Ohio. June 22, 1988.
9. van der Vleuten, C., Swanson, D.B., **Petrusa, E.R.** and Williams, R. New methods in student assessment and skills training. University of Limburg. Maastricht, Netherlands. July 7-8, 1988.
10. Williams, R.G., Barrows, H.S., King-Meltzer, A., **Petrusa, E.R.**, Stillman, P.L., Regan, M.B. and Philbin, M. Standardized patients as a medium for clinical assessment and teaching. (GME Workshop) Association of American Medical Colleges Annual Meeting. Chicago, Illinois. November 11-17, 1988.
11. **Petrusa, E.R.** Incorporating standardized patients into your programs for teaching and evaluation. Presented at the APGO Education Seminar, Dallas, Texas, January 19, 1990.
12. **Petrusa, E.R.** Case development for the use of standardized patients in teaching and evaluation. Presented at the APGO Education Seminar, Dallas, Texas, January 20, 1990.
13. Hart, I.A., **Petrusa, E.R.** and Cohen, R. Pros and cons of short station OSCEs. GEA discussion group. Association of American Medical Colleges Annual Meeting. San Francisco, California, October 23, 1990.
14. **Petrusa, E.R.** Standardized Patient-Based Examinations for Licensure and Certification. Mississippi State University School of Veterinary Medicine, Columbia, MS, May 23-24, 1994.
15. Shatzer, J., **Petrusa, E.R.**, Klass, D.J., Williams, R. and Simington, D. Standardized Patients for Teaching and Evaluation. Johns Hopkins Medical School, Baltimore, June 17, 1994.
16. **Petrusa, E.R.**, Froh, R.C. Selecting and Interpreting Basic Statistics for Medical Education Research. RIME Workshop, Association of American Medical Colleges, San Francisco, CA, 1996.

17. Mahoney, J., **Petrusa, E.R.** Integrating simulation throughout the medical education continuum. GEA Workshop, Association of American Medical Colleges, Washington, D.C., 2005.

Posters

1. Payer, A., Rogers, L.A., Markus, J.F., **Petrusa, E.R.** and Sajid, A.W. Assessing Global Competencies of Medical Students. (Poster) Innovations in Medical Education (IME) at the Annual Meeting of the Association of American Medical Colleges. New Louisiana. October 25-31, 1986.
2. **Petrusa, E.R.**, Ainsworth, M.A., Rogers, L.P., Lisse, J., Blackwell, T.A., Kluge, R.M., Daniels, J. and Johanson, W.G. Undergraduate medical education in the ambulatory setting: An analysis of educational performance, physician efficiency and patient satisfaction. IME Exhibit, Association of American Medical Colleges. Washington, D.C. November 6-12, 1987.
3. Kitay, J.I., Payer, A.F., Rogers, L.P., Markus, J.F., **Petrusa, E.R.** and Sajid, A.W. A required assessment of professional competence. IME Exhibit, Association of American Medical Colleges, Washington, D.C. November 6-12, 1987.
4. **Petrusa, E.R.**, Patten, E., Leveque, C. and Markus, J. Transfusion medicine: A case based course for third year medical students. (Poster) Annual meeting of the Transfusion Medicine Academic Programs. Bethesda, Maryland. June 2-4, 1988.
5. Lee, L.S., Johnson, V.K., Michener, J.L., Neelon, F.A., **Petrusa, E.R.**, Sheline, B., Tetel-Hanks, J.: Integrating Content and Process: Clinical Arts at Duke University. IME Exhibit, Association of American Medical Colleges, New Orleans, Louisiana, November 1992.
6. Lee, L.S., Johnson, V.K., Michener, J.L., Neelon, F.A., **Petrusa, E.R.**, Sheline, B., Tetel-Hanks, J. □□□Integrating Content and Process: Clinical Arts at Duke University.□ IME Exhibit, Association of American Medical Colleges, New Orleans, LA, November 1992.
7. Camp, M.G., Cariaga-Lo, L.D., Harward, D.H., **Petrusa, E.R.**, Richards, B.F., Smith, A.C. and Willis, S.E. □Comparison of Students' Performance on Biomedical vs Psychosocial CPX Cases. (poster) The Sixth Ottawa Conference on Medical Education, Toronto, Ontario, Canada, June 1994.
8. Gordon, M.S., Mayer, J., Issenberg, B., Lawson, D., O'Connell, M., Felner, J., Waugh, R., **Petrusa, E.**, Ewy, G., Gessner, Il, Safford, R., Kondos, G., McClellan, J., Brown, D. Harvey, The Cardiology Patient Simulator (CPS). IME Exhibit, Association of Academic Medical Colleges, San Francisco, CA, 1996.
9. Gordon, M.S., Mayer, J., Issenberg, B., Lawson, D., O'Connell, M., Felner, J., Waugh, R., **Petrusa, E.R.**, Kondos, G., McClellan, J., Brown, D., Mattern, W. The UMedic Four Year Multimedia Computer Curriculum. IME Exhibit, Association of American Medical Colleges, San Francisco, CA, 1996.

10. Grochowski, C.O., **Petrusa, E.R.**, Buckley, E.C. The Duke Curriculum – Foundation for Excellence. IME Exhibit, Association of American Medical Colleges, Washington, D.C., 2005.
11. Promes, S.B., Sexton, M, **Petrusa, E.R.** The Duke Curriculum – Foundation for Excellence The Capstone Course. IME Exhibit, Association of American Medical Colleges, Washington, D.C., 2005.

VII. Grants and Contracts:

Co-Investigator, Assessment and Prediction of Individual Team Skills
The Stemmler Fund (National Board of Medical Examiners)
Melanie, Wright, Ph.D., Principal Investigator
\$70,000
2005-2006

Evaluator, The “Bonus” Program
Hartford Foundation
Brenda Armstrong, M.D. – PI
\$600,000
2003-2007

Evaluator, Center for Education and Research Training (CERTs)
Agency for Healthcare Research and Quality
Robert Califf, M.D. – P.I.
2002-2003

Evaluator, Geriatrics Fellowship Training Grant
National Institute on Aging
Ken Lyles, M.D. – PI
\$875,000
2000-2005

Evaluator, Geriatrics Education for Medical Students
AAMC/Hartford
2001-2003
\$100,000

Evaluator, Medical Minorities Education Partnership
AAMC/Robert Wood Johnson Foundation
\$1.4 million
2000-2005

Co-Investigator, Pharmacology Education Partnerships
Rochelle Schwartz-Bloom, Ph.D., Principal Investigator
National Institute on Drug Abuse
1998-2001
\$490,409
Completed

Principal Investigator: Improving Clinical Performance Evaluation
Josiah Macy, Jr. Foundation
1992-1995
\$500,000
Completed

Co-Investigator: □ IAIMS Implementation Project, Phase III
William Stead, M.D., then Victor Stauten, then David Pryor, M.D.
National Library of Medicine
1987-1995
\$6,000,000
Completed

Principal Investigator: Use of Standardized Patients in Continuing Medical Education
Merrill-Dow Pharmaceutical Company
1992-1994
\$5,000
Completed

Principal Investigator: Standardized Patient-based Assessment Feasibility Studies
National Board of Medical Examiners
1993
\$28,160

Principal Investigator: Standardized Patient-based Assessment Feasibility Studies
National Board of Medical Examiners
1994
\$33,215
Completed

Principal Investigator: Standardized Patient-based Assessment Feasibility Studies
National Board of Medical Examiners
1995
\$70,655
Completed

Co-Investigator: Reliability, Validity and Feasibility of Teaching Portfolios in Medical Education
U. S. Department of Education/Fund for the Improvement of Post Secondary Education (FIPSE)
Linda S. Lee, Ph.D., Principal Investigator
1995-1998
\$163,586
Completed

Principal Investigator: Standardized Patient-based Assessment Feasibility Studies
National Board of Medical Examiners
1996
\$10,000
Completed

Principal Investigator: Collaborative Project to Improve the Evaluation of Clinical Competence
National Fund for Medical Education
1985-1988
\$94,603
Completed

Consultant Appointments:

Medical Council of Canada, 1985
Kuwait University School of Medicine, 1985
University of Oklahoma School of Medicine, 1985
University of Hawaii School of Medicine, 1986
Ohio State University School of Medicine, 1988
National Board of Medical Examiners, 1989-1994
Clinical Skills Assessment Alliance, 1989-1993
Association of Professors of Obstetrics and Gynecology, 1990
University of Toronto School of Medicine, 1990
East Tennessee State University School of Medicine, 1990
The Robert Wood Johnson Foundation, 1992
Baylor College of Medicine, 1993-95
Gulf Coast Consortium for the Assessment of Clinical Skills, 1993-95
Educational Commission on Foreign Medical Graduates, 1994-95
Mississippi State University School of Veterinary Medicine, 1994
Society of Academic Emergency Medicine, 1995
University of Miami School of Medicine, 1995-present
Johns Hopkins University School of Medicine, 1995
Medical College of Georgia, 1996
MacArthur Foundation, 1996
North Carolina Medical Society, 1996-present
University of Utah School of Medicine, 1997
Vanderbilt University School of Medicine, 1998
Glaxo-Wellcome Pharmaceuticals (Pathway Program), 1999
Florida State University, 1999
University of Texas Medical Branch, 2001
George Washington School of Medicine, 2004
Emory University School of Medicine, 2005
University of Virginia School of Medicine, 2006

Editorial Board: *Teaching and Learning In Medicine*, 1996-2002
 Medical Education, 1998-2004

Organizations and Participation:

National Commission for the Certification of Physician Assistants, Board of Directors 1999 to present
AAMC/GEA Research in Medical Education Section, Chair 1998 - 2000
Sigma Xi, 1979-1987
American Educational Research Association, Div. I, 1982-1995
National Council on Measurement in Education, 1990-1995
Society of Directors of Research in Medical Education; secy. 1992-93, pres. 1995-96
Association of American Medical Colleges, Research in Medical Education Program Committee,
Chair, 1994-95
Generalists in Medical Education, 1980-present, Chair 1995-96

Research Interests:

Standardized Patient-based Clinical Performance Examinations
Assessment of Clinical Performance
Influence of Assessment on the Educational Process