

Curriculum Vitae

Education

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| Bachelor of Science in Pharmacy, University of Toronto | 1978 |
| Ph.D. University of Toronto | 1988 |
| Dissertation: The Use of Microindentation Techniques to Assess the Ability of Pharmaceutical Crystals to Form Strong Compacts | |
| Postdoctoral Fellow University of Toronto, Surface Thermodynamics, Department of Mechanical Engineering | 1989 |

Awards and Honors Received

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| AAUW – Named as one of 250 notable women who have contributed to the City of St. Louis over the last 250 years | 2015 |
| Fellow, National Academies of Practice | 2015 |
| Lyman Award | 2006 |
| Ebert Prize | 2000 |
| AACP Teaching Innovations Award | 1996 |
| Association of Faculties of Pharmacy in Canada -Upjohn Junior Investigator Award (Best Junior Pharmacy Investigator in Canadian Schools of Pharmacy for 1994) | 1994 |
| University of Toronto Senior Alumni Teaching Award | 1992 |
| University of Toronto Open Fellowship | 1985 |
| Parke-Davis Award | 1985 |

Employment

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| California Health Sciences University, Provost | 2015- |
| Drake University College of Pharmacy and Health Sciences, Dean and Professor | 2013-2015 |
| St. Louis College of Pharmacy, Vice President, Academic Affairs, Dean of Pharmacy and Professor | 2007-2013 |
| St. Louis College of Pharmacy, Dean of Pharmacy and Professor | 2006-2007 |
| Auburn University, Associate Professor with tenure | 2006 |
| Associate Dean for Education, Director, Office of Teaching, Learning and Assessment, Auburn University Harrison School of Pharmacy | 2005-2006 |
| Assistant Dean for Education, Director, Office of Teaching, Learning and Assessment, Auburn University Harrison School of Pharmacy | 2003-2005 |
| President, Crux Consulting / Grian Facilitations | 1995-2003 |
| School of Pharmacy, Texas Tech University, Assistant Dean for Student Outcomes Assessment and Associate Professor | 1995-1996 |

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| Faculty of Pharmacy, University of Toronto, Associate Professor, Status | 1995-2000 |
| Faculty of Pharmacy, University of Toronto, Associate Professor with tenure | 1994-1995 |
| School of Pharmacy, Temple University, Adjunct Professor | 1990-1992 |
| Faculty of Pharmacy, University of Toronto, Assistant Professor | 1989-1994 |
| Ontario College of Pharmacists (Training report grader, English proficiency examiner, training report development) | 1981-1995 |
| MacInnes Pharmacy (Manager) | 1982-1983 |
| Mississauga Hospital, staff pharmacists | 1981-1982 |
| MacInnes Pharmacy (Manager) | 1979-1981 |

Professional Development

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| Alverno College - Assessment as Learning | 1991 |
| Pacific Crest – Teaching Institute | 1992 |
| Psychometrics Canada – Qualification for MBTI Administration | 1993 |
| Psychometrics Canada – The Wisdom of Diversity | 1995 |
| Institute of Logotherapy – Introduction to Logotherapy | 1995 |
| Leadership Amarillo | 1996 |
| 2 nd Annual Worldwide Lessons in Leadership, Oct 23-24 | 1997 |
| Pacific Crest – Facilitator’s Institute | 2004 |
| Bryn Mawr Summer Institute for Women in Higher Education Administration | 2006 |
| Pacific Crest – Curriculum Design Institute | 2007 |
| Pacific Crest – Assessment Institute | 2007 |
| Association for Institutional Research – Data and Decisions Academy – Fundamentals of Data Management | 2012 |
| American Council for Education – Chief Academic Officer Institute | 2015 |
| UC Berkeley Center for Executive Education – Creating the future: building a sustainable organization | 2016 |
| Pacific Crest – Process Education Institute | 2016 |

Scholarship

Peer Reviewed Journal Publications

1. W.C. Duncan-Hewitt and D.J.W. Grant. True Density and Thermal Expansivity of Pharmaceutical Solids: Comparison of Methods and Assessment of Crystallinity. *Int. J. Pharm.* 28 (1986) 75-84
2. W.C. Duncan-Hewitt and D.J.W. Grant. The Impact Fracture Wear Test: A Novel Method of Tablet Evaluation. *Powder Technology*, 52(1987) 17-28

3. W.C. Duncan-Hewitt and G.C. Weatherly. Evaluating the Fracture Toughness of Sucrose Crystals Using Microindentation Techniques, *Pharm.Res.* 6 (1989) 373-378
4. W.C. Duncan-Hewitt and G.C. Weatherly, Evaluating the Hardness, Young's Modulus, and Fracture Toughness of some Pharmaceutical Crystals Using Microindentation Techniques. *J. Mat. Sci. Letters*, 8 (1989) 1350-1352
5. W.C. Duncan-Hewitt, Z. Policova, P. Cheng, E.I. Vargha-Butler, and A.W. Neumann. Semiautomatic Measurement of Contact Angles on Cell Layers by a Modified Axisymmetric Drop Shape Analysis. *Colloids and Surfaces*, 42 (1989) 391-403.
6. W.C. Duncan-Hewitt, and G.C. Weatherly. Evaluating the Deformation Kinetics of Sucrose Crystals Using Microindentation Techniques, *Pharm Res.*, 6 (1989) 1060-1066.
7. W.C. Duncan-Hewitt and G.C. Weatherly. Modeling the Uniaxial Compaction of Pharmaceutical Powders Using the Mechanical Properties of Single Crystals I: Ductile Materials, *J. Pharm Sci.*, 79 (1990) 147-152.
8. W.C. Duncan-Hewitt and G.C. Weatherly. Modeling the Uniaxial Compaction of Pharmaceutical Powers Using the Mechanical Properties of Single Crystals II: Brittle Materials, *J. Pharm Sci.*, 79 (1990) 273-278.
9. W.C. Duncan-Hewitt. Predicting the Relative Rate of Wear of Pharmaceutical Compacts Using the Mechanical Properties of Their Constituent Crystals. *Powder Technology*, 60 (1990) 261-272.
10. W.C. Duncan-Hewitt. Oriented Dipoles at Interfaces: Calculation of Surface Potential and Surface Tension. *Langmuir*, 7 (1991) 1229-1234.
11. M. Thompson, A.L. Kipling, L.V. Rajakovic, B.A. Cavic-Vlasak and W.C. Duncan-Hewitt. Thickness-Shear-Mode Acoustic Wave Sensors in the Liquid Phase. *The Analyst*, 116 (1991) 881-890.
12. W.C. Duncan-Hewitt and M. Thompson. A Four-Layer Theory for the Acoustic Shear Wave Sensor in Contact with Polar Liquids Incorporating Interfacial Slip and Wall-Adjacent Liquid Structure. *Analytical Chemistry*, 64 (1992) 94-105.
13. E. Papadimitropoulos and W.C. Duncan-Hewitt. Predicting the Post-Consolidation Relaxation Behaviour of Sodium Chloride Tablets. *J. Pharm.Sci.*, 81 (1992) 701-704.
14. W.C. Duncan-Hewitt. Formulation Problem-Solving as an Alternative to Traditional Pharmaceutics. *American Journal of Pharmaceutical Education*, 56 (1992) 242-251.
15. W.C. Duncan-Hewitt and R. Nisman. Sedimentation Testing to Predict the Adhesion of Acetaminophen and Adipic Acid to Glass. *J. Adhesion Science and Technology*, 7 (1993) 263-283.
16. W.C. Duncan-Hewitt. Uniaxial Compaction Modelled Using the Properties of Single Particles. *Drug Development and Industrial Pharmacy*, 19 (1993) 2197-2240.
17. M. Yang, M. Thompson and W.C. Duncan-Hewitt. Interfacial Properties and the Response of the Thickness-Shear-Mode Acoustic Wave Sensor in Liquids. *Langmuir*, 9 (1993) 802-811.
18. M.C. Lin and W. Duncan-Hewitt. Deformation Kinetics of Acetaminophen Crystals. *Int. J. Pharm.*, 106 (1994) 87-200.

19. W.C. Duncan-Hewitt, D.L. Mount and A. Wu. Hardness Anisotropy in Acetaminophen Crystals. *Pharm. Research*, 11 (1994) 616-623.
20. W. Duncan-Hewitt and E. Papadimitropoulos. Deformation Kinetics of Potassium Bromide to Predict Tablet Stress Relaxation, *J. Pharm. Sci.*, 83 (1994) 91-95.
21. S.K. Lum and W.C. Duncan-Hewitt. Deformation Kinetics Analysis of Polymeric PMMA/coMAA Matrices. *Pharm. Research.*, 13(1996) 692-700.
22. Duncan-Hewitt. Designing Admissions Criteria: A Framework. *Am. J. Pharm. Ed.* 60 (1996) 109-121.
23. Lum and W.C. Duncan-Hewitt. A Comparison of Elastic Moduli Derived from Theory Microindentation and Ultrasonic Testing. *Pharm Research.* 13(1996) 1737-1745.
24. D.L. Woods, W.C. Duncan-Hewitt, F.A. Hall, C. Eyles and A.N. Hrymak. Tutored versus Tutorless Groups in PBL. *Amer.J. Pharm. Ed.* 60 (1996) 231-238.
25. W.C. Duncan-Hewitt. A Focus on Process Improves Problem-Based Learning in Large Classes. *Amer. J. Pharm. Ed.* 60 (1996) 109-121.
26. W.C. Duncan-Hewitt and J. Rains. Compounded Suppositories and Pharmaceutical Care. *Int. J. Compounding* 1(1997) 93-99.
27. S.K. Lum and W.C. Duncan-Hewitt. Powder Densification I: Particle-particle basis for incorporation of viscoelastic material properties. *J. Pharm. Sci.* 1999; 88(2) 261-276.
28. S.K. Lum, S.W. Hoag, and W.C. Duncan-Hewitt, "Powder Densification. 2. Viscoelastic material properties in modeling the uniaxial compaction of powders", *J. Pharm. Sci.*, 87(8) 1998 pp. 909-916.
29. Berger, BA, Butler S, Duncan-Hewitt W, Felkey, BG, Jungnickel, PW, Krueger, J, Perry, C, Taylor, C. Changing the culture: an institution-wide approach to instilling professional values. *American Journal of Pharmaceutical Education*, 68 (2004) Article 22.
30. W. Duncan-Hewitt "The Development of a Professional" *American Journal of Pharmaceutical Education* 2005; 69 (1) Article 6.
31. W. Duncan-Hewitt. "The Affective Domain," in *Process Education Faculty Guidebook*, 1st Edn., Pacific Crest, Lisle, IL, 2004, *accepted for Process Education Faculty Guidebook*, 2nd Edn., Pacific Crest, Lisle, IL, 2005.
32. W. Duncan-Hewitt and Z. Austin "Pharmacy Schools As Expert Communities Of Practice? A proposal to radically restructure pharmacy education to optimize learning" *American Journal of Pharmaceutical Education* 2005; 69 (3) Article 54.
33. Z. Austin and W. Duncan-Hewitt "Faculty, Student and Practitioner Development within a Community of Practice: Strategies for adapting administrative structures and curricula in pharmacy" *American Journal of Pharmaceutical Education* 2005; 69 (3) Article 55.
34. W Duncan-Hewitt, P. Jungnickel, R.L. Evans. "Development of an Office of Teaching, Learning and Assessment," *American Journal of Pharmaceutical Education* 2007; 71 (2) Article 35.

35. Somma, MA, Meyer SM, Duncan-Hewitt WC, Hall DL, Goode K, Smith "Defining the Differences: Medication Therapy Management, Patient Counseling, Disease Management, and Pharmaceutical Care" *J Amer. Pharm. Assoc.* 2007; 47 (5) 620-628.
36. Thomas SG, Hester EK, Duncan-Hewitt W, Villaume WA. A High-Stakes Assessment Approach to Applied Pharmacokinetics Instruction. *American Journal of Pharmaceutical Education* 2009; 72 (6) Article 146.
37. Buring SM, Bhushan A, Broeseker A, Conway S, Duncan-Hewitt W, Hansen L, Westberg S, Interprofessional Education: Definitions, Student Competencies, And Guidelines For Implementation. *American Journal of Pharmaceutical Education* 2009. Article 59.
38. Maize DF, Fuller SH, Hritcko PM, Matsumoto RR, Soltis DA, Taheri RR, Duncan W. Remediation: Best Practices in Pharmacy and Health Care Education. *American Journal of Pharmaceutical Education* 2011; 74 (2) Article 25.
39. W. Duncan-Hewitt, D. Mount, S. Beyerlein, D. Cordon, and J. Steciak. Using a Developmental Model to Facilitate Team-Based Design Experiences in a Pre-College Engineering Science Camp, *International Journal of Process Education* 1(1) 2009 3-10.
40. Grice GR, Gattas NM, Sailors J, Murphy JA, Tiemeier A, Hurd P, Prosser T, Berry T, Duncan W. Health Literacy: Use of the Four Habits Model to Improve Student Pharmacists' Communication. *Patient Education and Counseling* 90 (2013) 23-28.
41. Gloria R. Grice, Kacie Monson, Jamie Pitlick, Rasma Cherson, Wendy Duncan, Gemma Geslani, Kimberly Kilgore, Puja Patel, Heather Pautler. Developing a Professionalism Plan, *Innovations in Pharmacy* 2013; 4(1) article 4.
42. Vouri S, Grice G, Roberts A, Berry T, Duncan W. Didactic and Experiential Interprofessional, Inter-Institutional Courses at a Private College of Pharmacy. *Currents in Pharmacy Teaching and Learning, Volume 5, Issue 6, Pages 626-631, November 2013.*
43. Grice GR, Tiemeier A, Hurd P, Berry TM, Voorhees M, R. Prosser TR, Sailors J, Gattas NM, Duncan W. Student use of health literacy tools to improve patient understanding and medication adherence. *American Consult Pharm.* 2014 Apr;29(4):240-53.
44. Gleason BL, Gaebelein CJ, Grice GR, Crannage AJ, Weck MA, Hurd P, Walter B, Duncan W. Assessment of Students' Critical Thinking and Problem Solving Abilities across a 6-Year Doctor of Pharmacy Program: A Pilot Test, *Am J Pharm Educ.* 2013 Oct 14;77(8):166
45. Duncan W, Gleason B. Knowledge, Abilities, Responsibilities: The Design of a 3D Pharmacy Curriculum Framework to *International Journal of Process Education* 2015 7(1) 53-62.
46. Duncan W, Bottenberg M, Chase M, Chesnut R, Clarke C, Schott K, Torry R, Welty T. Toward Cost Containment of Pharmacy Education: An Industrial Engineering Approach *American Journal of Pharmaceutical Education* 2015; 79 (9) Article 131.
47. Mangione RA, Duncan WC, Johnson MS, Law AV, Nobles Knight D, Worrall C, Lang WG. Access, Affordability and Accountability: Academic Pharmacy's Approaches and Challenges in Addressing Issues of Higher Education Policy. Report of the AACP Advocacy Committee. (2015 Oct 25) *American journal of Pharmaceutical Education*, 79(8):S14
48. Apple D, Duncan W, Ellis W. Key Learner Characteristics that Produce Academic Success, *International Journal of Process Education*, 2016; 8 (2) 61.

49. Evans RL, Duncan W, Jungnickel PW. Incorporating ACPE Standards in a Holistic Approach to School Operations and Accreditation. *Am J Pharm Educ*.

Peer Reviewed Books

1. W.C. Duncan-Hewitt, D.L. Mount and D.K. Apple. Cooperative Learning - A Handbook, Pacific Crest Software, 1995
2. W.C. Duncan-Hewitt and D.K. Apple. A Primer of Process Education, Pacific Crest Software, 1995.

Peer Reviewed Book Chapters

1. W.C. Duncan-Hewitt. Nature of the Hydrophobic Effect. Physical Forces in Microbial Cell Surface Hydrophobicity. (R.J. Doyle, M. Rosenberg, Ed.) American Society for Microbiology, 1990, pp. 39-74
2. W.C. Duncan-Hewitt and S.K. Nisman. Investigation of the Surface Free Energy of Pharmaceutical Materials from Contact Angle, Sedimentation and Adhesion Measurements in Contact Angle, Wettability, and Adhesion. (K.L. Mittal, Ed.), VSP, The Netherlands, 1993.
3. W.C. Duncan-Hewitt. Modeling the Compression Behaviour of Particle Assemblies from the Mechanical Properties of Individual Particles in, Pharmaceutical Powder Compaction Technology. C. Nyström and G. Alderborn (Eds.). Dekker, New York, 1995.
4. W. Duncan-Hewitt. "A Framework For Implementing Process Education," Process Education Faculty Guidebook, 1st Edn., Pacific Crest, Lisle, IL, 2004.
5. W. Duncan-Hewitt. "Role of PE in Fulfilling the Changing Mission of Higher Education in the 21st Century," Process Education Faculty Guidebook, 2nd Edn., Pacific Crest, Lisle, IL, 2005.
6. W. Duncan-Hewitt and S. Butler. "Problem-Based Learning," Process Education Faculty Guidebook, 2nd Edn., Pacific Crest, Lisle, IL, 2005.
7. W. Duncan-Hewitt. "A Framework For Implementing Process Education," Process Education Faculty Guidebook, 2nd Edn., Pacific Crest, Lisle, IL, 2005.

Abstracts and Conference Proceedings Published - Peer Reviewed

1. D.J.W. Grant, M. Mehdizadeh, K.Y. Chow, J. Go and W.C. Duncan-Hewitt, 1984. Influence of incorporated oleic acid on the properties of adipic acid crystals. *Clinical and Investigative Medicine*, 7, (3), A9
2. W. Duncan-Hewitt and D.J.W. Grant, 1985. True density distribution and thermal expansivity of pharmaceutical solids. *Proceedings of the F.I.P. Conference, Montreal, September 2-6, 1985*, abstract no. 12, p 23.
3. W. Duncan-Hewitt and D.J.W. Grant, 1985. Tablet evaluation using an impact fracture wear test. *Pharm.Research* 3 (1985) 33S.
4. W.C. Duncan-Hewitt and D.J.W. Grant, 1987. Elucidation of the mechanical behaviour of labetalol HC1 tablets using the indices of tableting performance and the impact fracture

- wear test. *Proceedings of the 6th Pharmaceutical Technology Conference, Canterbury, England, April 7-9, 1987.*
5. W.C. Duncan-Hewitt and D.J.W. Grant, 1987. Some instrumental variables which influence the measured hardness of compacts. *Pharm. Research* 4 (1987) 22S.
 6. W.C. Duncan-Hewitt and D.J.W. Grant, 1987. Use of Hiestand's indices of tableting performance and the impact fracture wear test. *Pharm. Research* 4 (1987) 22S.
 7. W.C. Duncan-Hewitt and D.J.W. Grant, 1987. Application of an impact fracture wear test: evaluation of the wear behaviour of drugs and excipients. *Pharm. Research* 4 (1987) 31S.
 8. W.C. Duncan-Hewitt and D.J.W. Grant, 1987. Evaluation of the wear behaviour of tablets using the impact fracture wear test. *Proc. 19th Annual Graduate Students Research Meeting, Ann Arbor, Michigan, June 24-26, p.14.*
 9. W.C. Duncan-Hewitt and F. Skinner, Z. Policova, P. Cheng, and A.W. Neumann, 1988. Semi-automatic Measurement of Contact Angles on Cell Layers by a Modified Axisymmetric Drop Shape Analysis. *5th Chemical Congress of the North American Continent, Toronto, Ontario, June 2-7.*
 10. W.C. Duncan-Hewitt and G.C. Weatherly, 1988. Predicting the Compaction of Brittle Materials Using Microindentation Techniques. *Pharm. Research* 5 (1988) S231.
 11. W.C. Duncan-Hewitt and G.C. Weatherly, 1988. Knoop Hardness Anisotropy of Sucrose Crystals. *Pharm. Research* 5 (1988) S244.
 12. W.C. Duncan-Hewitt and G.C. Weatherly, 1988. Predicting the Relative Wear of Different Pharmaceutical Materials Using the Mechanical properties of Single Crystals. *Pharm. Research* 5 (1988) S231.
 13. W. Duncan-Hewitt, F. DeFilippis, P. Cheng, C. Budziak, and A.W. Neumann, 1988. Liquid/Fluid Interfacial Tensions and Contact Angles by Axisymmetric Drop Shape Analysis. *7th International Conference for Surfactants in Solutions, Ottawa, Canada, 1988.*
 14. P. Cheng, D. Li, E. Moy, C. Budziak, W.C. Duncan-Hewitt, and A.W. Neumann. Contact Angles - Recent Developments in Experimental Technique and Interpretation, *Hungary, October 1988.*
 15. W. Duncan-Hewitt, Z. Policova, W. Zingg, and A.W. Neumann. Interfacial Energetics of Proteins, *63rd Colloid and Surface Science Symposium, Seattle, WA, June 18-21, 1989.*
 16. A.W. Neumann, P. Cheng, F. DeFilippis, D. Li, Z. Policova, and W.C. Duncan-Hewitt. Interfacial Tensions and Contact Angles by Axisymmetric Drop Shape Analysis, *63rd Colloid and Surface Science Symposium, Seattle, WA, June 18-21, 1989.*
 17. E. Papadimitropoulos and W.C. Duncan-Hewitt. Post Consolidation Behavior of Sodium Chloride and Potassium Bromide. *Pharm. Research*, 6 (1989) 5-47.
 18. W.C. Duncan-Hewitt. Relative Surface-Free Energy of some Pharmaceutical Crystals Determined by Indentation Fracture, Contact Angles, Sedimentation and Rate of Water Penetration Methods. ACS Annual Meeting, Boston, April 1990.
 19. M. Thompson, P.G. Kalman, A.D. Romaschin, N. McKeown, R.K.K. Kallury and
 20. W. Duncan-Hewitt. Biocompatibility of Covalently-Bound Lipid Monolayers. ACS Annual Meeting, Boston, April 1990.

21. W.C. Duncan-Hewitt and D.N. Kaflieva. Interpreting Protein Adsorption Behaviour by Independent, Concurrent Experimental Approaches. ACS Annual Meeting, Boston, April 1990.
22. W.C. Duncan-Hewitt. Predicting the Surface Tension of Dipolar Liquids. *Pharm. Res.* 7 (1990) 1345.
23. W.C. Duncan-Hewitt. Protein Structure, Mobility and Function and Protein-Surface Interactions. Anabiotec, 1990, San Francisco, California.
24. W.C. Duncan-Hewitt. A Problem-Based Pharmaceutics Course. AFPC Annual Meeting, 1991, St. John's, NFLD.
25. W.C. Duncan-Hewitt. A Theory for the Acoustic Shear Wave Sensor in Contact with Polar Liquids. AFPC Annual Meeting, 1991, St. John's, NFLD.
26. W.C. Duncan-Hewitt and M. Thompson. A Theory for the Thickness Shear Mode Acoustic Wave Sensor in Contact with Water. AAPS Annual Meeting, Washington, D.C., November 1991, *Pharm. Res.* 8 (1991) S87.
27. J. Young and W.C. Duncan-Hewitt. Elucidation of the Binding Behaviour of Albumin Using the Langmuir Apparatus. AAPS Annual Meeting, Washington, D.C., November 1991, *Pharm. Res.* 8 (1991) S99.
28. W.C. Duncan-Hewitt and M. Lee. A Study of Protein/Interface Interaction Using the Method of Calorimetry, *American Chemical Society*, San Francisco, April 1992.
29. W.C. Duncan-Hewitt and R. Nisman. Sedimentation Testing to Predict the Adhesion of Acetaminophen and Adipic Acid to Glass, *American Chemical Society*, San Francisco, April 1992.
30. W.C. Duncan-Hewitt and M. Lee. Calorimetry of Protein Interface Interaction, AAPS Meeting, San Antonio, Texas, 1992, *Pharm. Res.* 9 (1992) 122S.
31. M.C. Lin and W.C. Duncan-Hewitt. Post-Consolidation Behaviour of Acetaminophen Crystals, AAPS Annual Meeting, San Antonio, Texas, 1992, *Pharm. Res.* 9 (1992) 118S.
32. W.C. Duncan-Hewitt. Strategic Planning for Improved Student Learning, 12th Annual Conference on Teaching and Learning in Higher Education, June 1992, Toronto.
33. M. Thompson, M. Damha, H.B. Su, M. Yang, K.M.R. Kallury, A.L. Kipling, L. Tessier and W.C. Duncan-Hewitt. DNA Hybridization Detected by Acoustic Energy Transmission - A New Biosensor Mechanism. *J. Molec. Recognition*, (1992) 33.
34. D. Burman and W.C. Duncan-Hewitt. Innovations in Large Group Teaching: Matching the Methods to the Problem. A.A.C.P. Annual General Meeting, July, Washington, D.C.
35. S. Lum and W. Duncan-Hewitt. Contact Deformation Between Two Viscoelastic Bodies. AAPS Annual Meeting, San Antonio, Texas, 1992, *Pharm. Res.* 9 (1992) 118S.
36. W. Duncan-Hewitt. A Workshop: Introduction to Second Year. A.A.C.P. Annual General Meeting, July 1993, San Diego.
37. W. Duncan-Hewitt. A Pharmaceutics Course Taught Using Self-Directed Task-Oriented Groups. A.A.C.P. Annual General Meeting, July 1993, San Diego.

38. Maureen A. McLaughlin and Wendy C. Duncan-Hewitt. Elasticity of Acetaminophen Crystals Investigated Using an Ultrasonic Method. Submitted to AAPS Annual Meeting, Orlando, FL, November 1993.
39. Wendy C. Duncan-Hewitt and David L. Mount. Plastic Flow Anisotropy of Acetaminophen Crystals. AAPS Annual Meeting, Orlando, FL, November 1993.
40. Susan K. Lum and Wendy C. Duncan-Hewitt. Hertzian Contact Analysis of Particle Contact Deformation. AAPS Annual Meeting, Orlando, FL, 1993.
41. W.C. Duncan-Hewitt. A Priori Prediction of Compact Behaviour by Microcharacterization of the Mechanical Properties of Single Particles. AAPS Solids Symposium, San Diego, November 1994.
42. St-Onge, M.G.L., Mount, D.L. and Duncan-Hewitt, W.C. Fracture Strength of Pharmaceutical Materials Using the Chevron-Notch Three-Point Bend Test. AAPS, San Diego, 1994.
43. W.Guo and W.C. Duncan-Hewitt. Influence of Relative Humidity on the Stress Relaxation of Sucrose Tablets. AAPS, San Diego, 1994.
44. Erik de Graaff and Wendy Duncan-Hewitt, The Influence of Assessment on Students' Behavior. Problem-Solving Across the Curriculum Conference, June 26-29, Genoa, New York, 1994.
45. R. Stull, W. Duncan-Hewitt, C. Bond, H. Laird, and C. Raehl, An Educational Blueprint for the Texas Tech University Health Science Center School of Pharmacy.
46. W. Duncan-Hewitt and David Mount. "Dialogues of Scholarship", workshop STLHE Conference, Ottawa, Canada, June, 1996.
47. S. Lum and Wendy Duncan-Hewitt) "Modelling the compaction of pharmaceutical powders using the viscoelastic properties of single particles", *Pharmaceutical Research*, 12(9) 1995 p. S169.
48. S.K. Lum and W.C. Duncan-Hewitt, "Ultrasonic testing of solids and the relationship to molecular structure", *Pharmaceutical Research*, 13(9) 1996 p. S201.
49. W. Duncan-Hewitt and David Mount. "Designing Instruction to Optimize Cognitive Growth", 5th Annual Lilly Conference on College & University Teaching South, Athens Georgia, March 12-14, 1999.
50. W. Duncan-Hewitt, D. Mount, S. Beyerlein, D. Elger, and J.Steciak, "Using Developmental Principles to Design Mentoring Experiences for Graduate Students," Proceedings of the 31st ASEE/IEEE Frontiers in Education Conference, 2001, S3B-4.
51. W. Duncan-Hewitt, D. Mount, S. Beyerlein, D. Elger, and J.Steciak, "Using Developmental Principles to Plan Design Experiences for Entering Engineering Students," Proceedings of the 31st ASEE/IEEE Frontiers in Education Conference, 2001, T3E-17.
52. Wendy Duncan Hewitt, Paul Jungnickel, Steve Butler, Lee Evans, Development of an Office of Teaching, Learning and Assessment: An Administrative Resource to Facilitate Change in Pharmacy Education, Special Session, AACP national meeting, Salt Lake City, Utah, 2004
53. Wendy Duncan-Hewitt, CQI of Process Education Scholarship – identifying and overcoming barriers to growth, Association of Research-Based Practitioners in Process Education, Elmhurst, IL, June 28-29.

54. Wendy Duncan-Hewitt, Activity Design and Cognitive Complexity, Association of Research-Based Practitioners in Process Education, Elmhurst, IL, June 28-29.
55. Kara Townsend, Janelle Krueger, Wendy Duncan-Hewitt, Kem Krueger, Jalynn Abrams, Kate Copelan, Kristopher Frederick, Andrea Gumert, Stephanie Lindsey, Brooke Maloy, Quentin Minson, Angela Pence, Jeremy Roop, Niaz Siddiqui, Kelli Sims, Lauren Streett, Julie Willmon, Auburn University, Concept Mapping Aids Learning of the Pharmaceutical Care Process, AACP Annual Meeting, Salt Lake City, UT, July 11-15, 2004.
56. Bruce A. Berger, Wendy C. Duncan-Hewitt, R. Lee Evans, Paul W. Jungnickel, Robert E. Smith Developing Our Professional Culture at Auburn University Harrison School of Pharmacy, AACP Annual Meeting, Salt Lake City, UT, July 11-15, 2004.
57. Paul Jungnickel, Wendy Duncan-Hewitt, Steve Butler, R. Lee Evans, Development of an Office of Teaching, Learning and Assessment. Special session, AACP Annual Meeting, Salt Lake City, UT, July 11-15, 2004.
58. W. Duncan-Hewitt representing Auburn University Harrison School of Pharmacy, Collaborating for Quality: Auburn University Harrison School of Pharmacy's Assessment System, AACP Annual Meeting School Poster, San Diego, CA, 2006.
59. Charles Taylor, Tricia Berry, Wendy Duncan-Hewitt. Fostering junior faculty success through a faculty academy program. AACP Annual Meeting, Orlando, FL 2007.
60. Abby Kahaleh, Chris Turner, Pete Vlasses. Wendy Duncan-Hewitt. Continuous Quality Improvement of Experiential Programs. AACP Annual Meeting, Orlando, FL 2007.
61. Cryder, Brian, Komperda, Kathy; Andurkar, Shridhar; Susan P. Bruce; Gulati, Anil; Duncan, Wendy; Winkler, Sue; Zavod, Robin. Developing a Culture of Scholarship. AACP Annual Meeting 2009, Boston MA.
62. Stamm, P, Rose, R, Duncan-Hewitt W, Taylor C, Byrd D, Helms K. Spanning the spectrum of active learning: from short and simple to comprehensive and complex. AACP Annual Meeting 2009, Boston MA.
63. Duncan W, Fielding D, Austin Z, Brazeau G, Blouin B, Stow C, Medina M. Speaking The Same Tongue: coming to consensus on the language of assessment and evaluation. Special Session at AACP Annual Meeting, 2010, Seattle WA.
64. Duncan W, Fielding D, Austin Z, Brazeau G, Blouin B, Stow C, Medina M. Speaking Charting the Course: planning efficient and effective approaches to assessment and evaluation. Special Session at AACP Annual Meeting, 2010, Seattle WA.
65. Murphy JA, Tiemeier AM, Berry TM, Grice GR, Hurd PD, Gattas N, Prosser T, Rattine-Flaherty E, Reeds R, Sailors JS and Duncan W. "Health Literacy: Use of the Four Habits Model to Improve Communication." American Association of Colleges of Pharmacy Annual Meeting, Seattle, WA, July 11-12, 2010
66. Peter D. Hurd, Tricia M. Berry, Amy Tiemeier, Rebecca Reeds, Theresa Prosser, Gloria Grice, Nicole Gattas, Julie Murphy, Elizabeth Rattine-Flaherty, Wendy Duncan. Health Literacy: Assessment of the Skills and Attitudes of Student Pharmacists using a Web-based Questionnaire, AACP Annual Meeting, 2010, Seattle WA.
67. Hurd PD, Berry TM, Tiemeier A, Reeds R, Gattas N, Grice G, Murphy J, Prosser T, Rattine-Flaherty E, Sailors JS, Duncan W. Health Literacy: Curricular Changes to Improve Students'

- Ability to Impact Patient Health. Presented at the American Association of Colleges of Pharmacy Annual Meeting, Seattle, Washington, July 11/12, 2010.
68. Hurd PD, Berry TM, Tiemeier A, Reeds R, Gattas N, Grice G, Murphy J, Prosser T, Rattine-Flaherty E, Sailors JS, Duncan W. Health Literacy: Curricular Changes to Improve Students' Ability to Impact Patient Health. Health Literacy Annual Research Conference. Bethesda, Maryland, October 2010
 69. Wendy Duncan, Peter Hurd, Tricia Berry, Amy Tiemeier, Chaya Gopalan, Terry Seaton, Zachary Stacy, Sheldon Holstad, Strengthening the Research Culture at St. Louis College of Pharmacy, School Poster, AACP Annual Meeting, 2010, Seattle WA.
 70. Wendy Duncan, Brenda Gleason, Gloria Grice, Abby Yancey, Tricia Berry. Backward Design—Assessing a Curriculum. Special Session, AACP Annual Meeting, 2011, San Antonio, TX.
 71. Hurd PD, Tiemeier AM, Berry TM, Grice G, Prosser TR, Gattas N, Murphy J, Reeds R, Sailors JS, Duncan W. Health Literacy Education: Changes In Pharmacy Student Abilities Over Two Years, AACP Annual Meeting, 2011, San Antonio, TX.
 72. Gleason BL, Berry TM, Crannage AJ, Gardenour BS, Gopalan C, Grice G, Marjanovic J, Duncan WC. Use of a Backward Design Process to Develop an Integrated, Outcomes-Based Patient Care Course Series. School Poster, AACP Annual Meeting, 2011, San Antonio, TX.
 73. Gloria R. Grice, Amy M. Tiemeier, Tricia M. Berry, Theresa R. Prosser, Jill Sailors, Nicole Gattas, Peter D. Hurd, Julie A. Murphy, Rebecca Reeds, and Wendy Duncan. Successful Integration Of Health Literacy Into An Introductory Pharmacy Practice Experience Course. AACP Annual Meeting, 2011, San Antonio, TX.
 74. Hurd P, Berry T, Duncan W, Gattas N, Grice G, Kebodeaux C, Murphy J, Prosser T, Sailors J, Tiemeier A, Voorhees M. Health Literacy Education: Demographic Factors Affecting Student Pharmacist Self-Assessment of Health Literacy Skills., has been accepted for the AACP Annual Meeting, 2012 in Kissimmee, FL
 75. Grice G, Pearce EF, Monson K, Roberts A, Berry TM, Tiemeier AM, Vouri SM, Kebodeaux C, Burke JM, Duncan WC. Didactic and Experiential Interprofessional, Inter-Institutional Courses at a Private College of Pharmacy. AACP Annual Meeting, 2012 Kissimmee, FL
 76. Marlowe K, Duncan W. Curricular Mapping is an ACTION VERB!, Special Session for the 2013 AACP Annual Meeting in Chicago, Illinois.
 77. Snella K, Duncan W, Brownfield A, Aistrophe D, Berry T. Missouri. In Successful Practices in Pharmaceutical Education: College/School of Pharmacy Collaborations with State Pharmacy Association(s) and State Board of Pharmacy. Alexandria, VA:AACP, 2013;33-5. (Available at <http://www.aacp.org/resources/education/Pages/SuccessfulPracticesinPharmaceuticalEducation.aspx>)
 78. Duncan WC, Apple Dan. Creating "Creating Extreme Learners" Through a Learning---to---Learn Course, Drake University Learning Symposium, August 15 2014.
 79. Apple D, Duncan W. Profile of a Quality Collegiate Learner. Process Education Conference, 2015.

80. Chesnut R, Phillips C, Duncan W. Standards 2016: Intentional Student Professional and Leadership Development in the Co-Curriculum. National Harbor, MD: AACP, 2015.
81. Wendy Duncan, PhD, Deborah Ikeda, PhD, Lynnette Zelezny, PhD. Contextualized Preprofessional Health Pathway. WASC-ARC 2016. San Francisco, CA.
82. Wendy Duncan, PhD, Midori Kondo, PharmD, and Richele Kleiser. Prospero – Prepharmacy Pathway in California’s Central Valley. 2016 AACP Annual Meeting, Anaheim CA.
83. Wendy Duncan, PhD. The Philosophy of Process Education – Reprise. Process Education Conference 2016, Grand Valley State University, MI.
84. Will Ofstad, Wendy Duncan. Augmenting Team-Based Learning with Process Education. Process Education Conference 2016, Grand Valley State University, MI.
85. Wendy Duncan, PhD. Moral Agency, Panelist for Institutional Equity Programs, Process Education Conference, Academy of Process Educators, Clovis CA, June 23, 2017.
86. Wendy Duncan, PhD. Workshop: Profile of a Quality Collegiate Learner as a General Education Outcome, Process Education Conference, Academy of Process Educators, Clovis CA, June 24, 2017.
87. Foley C, Munjy L, Marty-Pearson J, Harris C, Hussain D, Shenoy V, Clegg R, Nielsen N, Duncan W, Havard P. An Integrative Approach to Students’ Self-Awareness using Global Learning Outcomes (GLOs). Poster for AACP Annual Meeting, Nashville TN, 2017.
88. Duncan W, Azab A, Salazar M, Ofstad O, Sanchez R, Hughes J, Fuentes D. Better than Family: growing a healthy academic culture by coordinating relationships, processes and structures. WASC ARC, Garden Grove CA, April 10-12, 2019.
89. Hughes, J, Duncan, W, Fuentes, D, Salazar M. Implementing a “Huddle Culture” to Promote Organizational Health and an Informed, Cohesive, Academic Work Environment, AACP Annual Meeting, Chicago, IL, July 13-17, 2019.
90. Muellenbach J, Duncan W, Ennis, L, Yang A. Service and Staffing Practices within Academic Libraries Serving College of Osteopathic Medicine Programs: A Mixed Methods Study. Medical Library Association 19, Chicago IL May 3-8, 2019.

Self-Published Books

1. W.C. Duncan-Hewitt and D.L. Mount. Pharmaceutics Case Book. Grian Facilitations, Toronto, Canada, 1995.
2. W.C. Duncan-Hewitt and D.L. Mount. Awakening Choice, Nurturing Enthusiasm, Facilitating Responsible Action Crux Consulting. 1999.
3. W. Duncan-Hewitt. Empowered To Be Responsible, Crux Consulting, 2002.

Technical Reports

1. Prediction of Capping of Labetolol-HCl using Indices of Tablet Compaction, for Schering, 1987
2. Wetting of Fibre Potts, 1989, for Kord Products.
3. Batch to Batch Failure of Beclomethasone, 1991, for Schering.

Contracts

Kord Products, to solve wetting problems - co-investigator with A.W. Neumann, 1989.

Grants

Connaught Grant for Junior Investigators, 1989, \$10,000.00 - PI.

Johnson and Johnson International Academic Research Grant, 1989, \$20,000.00- PI.

Medical Research Council Operating Grant "Predicting Tablet Strength from the Properties of Tablet Constituents" 1990-1992, \$78,760.00 - PI.

Natural Sciences and Engineering Research Council Operating Grant "Deformation Kinetics of Pharmaceutical Crystals" 1990-1992, \$25,000 p.a. - PI.

Natural Sciences and Engineering Research Council Eqp. Grant "Non-Contact Laser Stimulated Laser Detecting Ultrasonic Pulse Apparatus" 1990, \$48,000 - PI.

Schering: Evaluation of the Sedimentation Behaviour of Drugs, 1991-1992 \$23,000 -PI.

Medical Research Council of Canada: M. Thompson, A Romaschin, K. Kallury, P. Kalman "Covalently Bound Lipid Species On Vascular Prostheses", 1991-1993Mt-11462, \$163,450 - Co-investigator.

Medical Research Council of Canada: "Predicting Tablet Strength from Properties of Constituents" 1992-1995, \$125,679 - PI.

Natural Sciences and Engineering Research Council Op. Grant: Determination of Elastic and Viscous Deformation Parameters of Pharmaceutical Crystals by Bulk Acoustic and Contact Deformation Experiments, 1993-1994, \$15,000 - PI.

Texas Tech Fund 2005, 1995, \$2,005.00 - primary investigator.(with Richard Stull)

Texas Tech Fund 2005, 1996 \$2,005.00 - co-investigator (with John Pelley)

Breeden grant for Faculty Enhancement, 2004 \$1901 co-investigator (with A. Donaldson, D. Byrd, K. Kelley)

Collaborator in "Community Engaged Scholarship for Health Collaborative" FIPSE funded project, 2005.

Berry TM, Tiemeier AM, Gattas N, Grice G, Hurd P, Murphy JA, Prosser TR, Rattine-Flaherty E, Reeds R, Varga N, Duncan W. Health Literacy: Educating Students, Pharmacists and Patients. Missouri Foundation for Health, December 2009. \$259,139.

Berry TM, Tiemeier AM, Gattas N, Grice G, Hurd P, Murphy JA, Prosser TR, Rattine-Flaherty E, Reeds R, Varga N, Duncan W. Health Literacy Curriculum Expansion: From Campus to Community. Missouri Foundation for Health, September 2011. \$199,382.

Schafermeyer KW, Mallinson K, (PIs) Duncan W, Tiemeier A, Simmons K. (cols) Proposal for a Partnership to Support Mid-level Pharmacy Professionals in South Africa by Strengthening the Pharmacy Technician Program at Nelson Mandela Metropolitan University, 2013, \$80,000

Professional Service and Outreach

Reviewer/Assessor

| | |
|---|--------------|
| Biocolloids and Biosurfaces - Editorial Advisory Board | 1989-1995 |
| J. Colloid Interface Science - reviewer | 1989-1994 |
| ParaDigm Biotechnologies Corporation - Science Advisory Board | 1989-1990 |
| AAPS | |
| Annual Meeting - Section Screener | 1990 |
| Awards Nominations for PPD Subsection | 1992 |
| CIC, Kenneth Armstrong Memorial Scholarship - assessor | 1990-1991 |
| Powder Technology – reviewer | 1991-1996 |
| International Journal of Pharmaceutics - reviewer | 1991-1996 |
| Colloids and Surfaces – reviewer | 1992 |
| Sanofi-Winthrop Graduate Studentships – selection committee | 1992 |
| Medical Research Council of Canada | |
| grant reviewer | 1992-1996 |
| pharmaceutical science committee | 1994-1996 |
| J Pharm Sci – reviewer | 1992-1996 |
| J. Adhesion Sci. & Technol – reviewer | 1992-1998 |
| American J. Pharmaceutical Education - reviewer | 1993-present |
| Int. J. Compounding - reviewer | 1997 |
| J Pharmacy Teaching – reviewer | 2004 |
| Social Science & Medicine – reviewer | 2004 |
| Pacific Crest Faculty Guidebook - Member of Project Director Team for 3 rd Edition | 2005 |
| Currents in Pharmacy Teaching and Learning | 2010-present |

Associations – Offices and Activities

| | |
|---|-----------|
| Ontario College of Pharmacists – licensed pharmacist | 1979-1993 |
| Preceptor to a Pharmacy Apprentice (Kamini Hetram) | 1993 |
| Peel Lung Association | |
| Lectures to parents of asthmatic children regarding pharmacology and correct use of medications used in the treatment of asthma | 1981-1984 |
| Board of Directors | 1983-1984 |
| Pharmacy Graduate Students' Association | |
| Member | 1984-1987 |

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|---|--------------|
| Secretary | 1984-1985 |
| President | 1985-1987 |
| American Association of Pharmaceutical Scientists | 1987-1995 |
| Membership Committee - Canadian Chairman | 1989 |
| American Chemical Society | 1988-1995 |
| Organizer, Symposium of Surface Phenomena of Biopolymers and Cells, Miami Beach, FL | 1989 |
| Organizer - Symposium on Surface Phenomena of Biopolymers and Cells, Boston, MA | 1990 |
| Organizer - Symposium on Drug Delivery in Colloidal Systems, Boston, MA | 1991 |
| Member of Canadian Membership Committee | 1991-1993 |
| Organizer - Symposium on Surface Phenomena in Medicine and Dentistry, San Francisco, CA | 1991 |
| Symposium Topic Chair | 1992 |
| Faculty of Medicine Task Force for Curriculum Renewal Member | 1990 |
| Association of Faculties of Pharmacy in Canada | 1990-1993 |
| Councilor for University of Toronto | |
| Chair Committee on Membership - II | 1993 |
| Teaching Development Advisory Committee, University of Toronto | 1990-1995 |
| New York Academy of Sciences | 1990-1995 |
| Anabiotec - Symposium on Proteins at Interfaces, San Francisco, California, October 22-24 - organizer | 1990 |
| Chemical Institute of Canada | |
| Secretary, Toronto Division | 1990-1991 |
| Drug Quality and Therapeutics Committee, Ontario Ministry of Health | 1991-1993 |
| American Association of Colleges of Pharmacy | |
| Member | 1991-present |
| Chair Elect, Section of Pharmaceutics - AACP | 1996 |
| Institutional Research Advisory Committee | 2004-2007 |
| Joint Committee on the Pharmaceutical Sciences in Pharmacy Education | 2004-2005 |
| Curriculum SIG – Chair | |
| Curriculum SIG – Immediate Past Chair | 2004-2005 |
| Council of Faculties Task Force on Interprofessional Education | 2005-2006 |
| Assessment Learning Community Leader | 2005-2008 |
| Social and Administrative Science Curriculum Committee | 2005-2006 |

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| | 2005-2006 |
| Institutional Research Advisory Committee | 2006-2007 |
| Standing Committee on Advocacy | 2009-2010; 2014-2015 |
| Joint Council of Deans / Council of Faculty Task Force on Advocacy; co-chair | 2010-2011 |
| Joint Council of Deans / Council of Faculty Task Force on Professionalization | 2011-2012 |
| Joint Council of Deans / Council of Faculty Task Force on Advocacy - inter-professional education workgroup | 2012-2013 |
| Council of Deans Secretary | 2015-2016 |
| American Association for Higher Education | 1993-1995; 2003 |
| University of Toronto Faculty Club | |
| Board of Directors and Member of House Committee | 1993-1995 |
| Vice President, Board of Directors | 1994-1995 |
| Amarillo West Rotary Club | 1995-1996 |
| Council of Health Professionals for Nat'l Network of Libraries of Medicine | 1996 |
| National Association of Compounding Pharmacists, Board of Directors and Head of Educational Services | 1996-1997 |
| Specialized Pharmaceutical Technologies, Board of Directors | 1996-1997 |
| A.A.U.W. Amarillo, Vice President, Membership | 2002 |
| Assoc. Research-Based Practitioners in Process Education – Conference Chair | 2004 |
| Associate Director of the Academy for Process Educators | 2007-2008 |
| Auburn University | |
| Biggio Center Advisory Board | 2004 |
| Committee to Examine Commission on Status of Women | 2004-2006 |
| Academic Program Review Committee | 2005-2006 |
| American Journal of Pharmaceutical Education – Editorial Board Member | 2006-2008 |
| Missouri Pharmacy Association - Academic Affairs Committee | 2007-2008 |
| Washington University Ethics Center - Executive Committee | 2007-present |
| Washington University Institute for Clinical and Translational Sciences – Governing Council | 2007-present |
| Healthcare Businesswomen's Association | 2008-present |
| Board of Directors, Co-chair Women in Science | |
| Advisory Board | |
| Mentor in HBA mentoring program | |
| National Association of Professional Women | 2008-present |
| Accreditation Council for Pharmaceutical Education – site evaluator | 2007-present |

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| Health Literacy Missouri – Annual Health Literacy Summit Planning Committee | 2011-2012 |
| Midwest Health Initiative – Member, Community Leadership Board | 2011 |
| United Way of St. Louis – Women’s Leadership Society, Cabinet member | 2012 |
| Iowa Pharmacy Association Foundation | 2013-present |
| Board of Directors | |
| Collaborative Education Institute Board of Directors | 2013-present |
| American Heart Association – Passion Committee | 2014 |
| United Way of Des Moines – Leadership Society | 2014 |
| National Academies of Practice – Vice-CHIAR, Pharmacy Academy | 2017 |

Consulting and Facilitation

| | |
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| Workshop on Problem-Based Learning, Faculty of Pharmaceutical Sciences, University of British Columbia. February | 1992 |
| Workshop on Problem-Based Learning, Department of Pharmacy, Memorial University, Newfoundland. March | 1992 |
| Research Department, Lyndhurst Hospital - Strategic Planning | 1992 |
| Glaxo Pathway Evaluation Program - Facilitator | 1993-1995 |
| OCUPRS Section of Council of Ontario Universities – Strategic Planning | 1993 |
| University of Western Ontario, Department of Physical Therapy – Strategic Planning | 1993 |
| University of Toledo, School of Pharmacy, September 23 – Orientation Workshop and PBL Workshop | 1994 |
| University of Toronto, Faculty of Pharmacy – Facilitator for Pacific Crest, Process Education | 1994 |
| The Health Station, 2398 Yonge St., Toronto, Ontario, January - Focus Groups and Planning for Barrier-Free Program | 1995 |
| Process Education Workshop for Professional Faculty, Monday, March 27. Koffler Institute, University of Toronto | 1995 |
| Dialogues of Scholarship Workshop, July 17-21, Koffler Institute, University of Toronto | 1995 |
| DACUM Analysis for Teaching Associate Education Program, Faculty of Pharmacy, University of Toronto, June 15 | 1995 |
| AQHYA Leadership Conference, Amarillo, TX – facilitator | 1996 |
| TTUHCS – School of Pharmacy | 1996 |
| Introduction to PBL – January 30 | |
| Designing Course Outcomes – March 20 | |
| Teaching with Cases – April 23 | |
| Assessment of Learning – May 10 | |
| Continuous Quality Improvement Teams, Harrington Cancer Center, Amarillo, TX, February 7 – Facilitator | 1997 |

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| Teaching Institute Kirkwood Community College, Chicago, IL, April 9-12 | 1997 |
| Teaching Institute, Sinclair Community College, Dayton, OH, July | 1997 |
| Teaching Institute, Sinclair Community College, Dayton, OH, December 10 | 1997 |
| Bellevue University, Bellevue, NB, Feb 11 - consulting | 1998 |
| Kirkwood Community College, Cedar Rapids, IA, Feb 12,13 - consulting | 1998 |
| Problem-Based Learning Workshop, Ferris State, April 9 | 1998 |
| Kirkwood Community College, Cedar Rapids, IA, April 14,15 – consulting | 1998 |
| Process-Focused Learning Workshop, Faculty of Pharmaceutical Sciences, University of Alberta, May 11-13 | 1998 |
| Process-Focused Learning Institute, St. Mary's College, IN, May 18-20 | 1998 |
| Cognitive Maturity and Problem-Based Learning Workshop, Physical Therapy Department, Belmont University, TN May 21 | 1998 |
| Facilitator Training, Boise, ID, June 17,18 | 1998 |
| Idaho Engineering Science Camp Facilitation, Boise ID, June 21-27 | 1998 |
| Facilitator Training, Boise, ID | 1999 |
| Idaho Engineering Science Camp Facilitation, Boise ID | 1999 |
| Facilitator Training Workshop, Moscow, ID, June | 2000 |
| Idaho Engineering Science Camp Facilitations, Moscow, ID, June | 2000 |
| Cognitive Development Workshop (2), University of Idaho, Moscow, ID, November | 2000 |
| Cognitive Development, Faculty of Pharmacy, University of Toronto, November | 2000 |
| Cognitive Development Workshop, Kirkwood Community College, Cedar Rapids, IA, November | 2000 |
| Cognitive Development Workshop, Faculty Retreat, Agriculture Dept, Kirkwood Community College, Cedar Rapids, IA, March | 2001 |
| Program Assessment Workshop, SUNY Stony Brook, Jan 14, 15 | 2002 |
| Faculty College, AUHSOP | 2003-2005 |
| Faculty Development Series (at least monthly) AUHSOP | 2004-2006 |
| Program Assessment Workshop, University of the District of Columbia, July 21, 22 | 2004 |
| West Virginia University School of Pharmacy Faculty Retreat, January | 2009 |
| Assessment Institute, Gaston Community College, June 24-26 | 2009 |
| Assessment – Consulting for Accreditation Council for Pharmaceutical Education | 2009 |
| Teaching Institute, Hinds Community College, January | 2010 |
| DACUM Workshop: developing a Curriculum; University of Wyoming School of Pharmacy, September 23 | 2010 |
| Contributing editor for: Apple D, Ellis W, and Hintze D. 25 Year of Process Education, International Journal of Process Education, February 2016, Volume 8 Issue 1. | 2016 |

Invited Lectures

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| School of Pharmacy, Memorial University, Newfoundland. "Evaluating the Ability of Pharmaceutical Crystals to Form Tablets by Microindentation Techniques" | October 1988 |
| Faculty of Pharmacy, Dalhousie University, Nova Scotia. "Using Microindentation Techniques to Evaluate the Mechanical Properties of Pharmaceutical Crystals" | October 1988 |
| Schering Pharmaceuticals, Miami, Florida, "Predicting Tablet Compaction, Indices of Tableting Performance, and Other Subjects Related to Tableting" | February 1989 |
| Faculty of Pharmacy, University of British Columbia. "The Thermodynamic Significance of Contact Angles". | February 1989 |
| Physical Chemical Aspects of Protein and Cell Adsorption "Interfacial Physical Chemistry and Aspects of Biocompatibility" Workshop, Toronto General Hospital | November 1989 |
| Toronto General Hospital Grand Rounds. "Proteins at Liquid/Solid Interfaces" | February 1990 |
| CIC Annual General Meeting Guest Speaker "Proteins at Interfaces" | November 1990 |
| The Electrochemical Society, Inc., Symposium on "Interfacial Science and Chemical and Biosensor Development" February 22 nd | February 1991 |
| "The Chemistry of Biocompatibility" Symposium on Chemistry and Physics in the Health Sciences, Erindale College | February 1991 |
| The Fifth Conference, Commonwealth Pharmaceutical Association, Hamilton, Ontario, "The Storage and Stability of Medicines as Taught in the Undergraduate Pharmacy Course" | August 1991 |
| "The Use of Microindentation in Process Evaluation", Philadelphia Pharmaceutical Forum, October 10 | October 1991 |
| "Speculations on the Role of Crystal Habit in Pharmaceutical Processing", McNeil Consumer Products, Philadelphia | October 1991 |
| "Problem-Based Learning", ACQUI, Erindale College | October 1991 |
| "Modeling the Partially-Wetted Bulk Acoustic Wave Sensor" Department of Physics, Memorial University, Newfoundland | March 1992 |
| "Uniaxial Compaction Modelled Using the Properties of Single Particles" Second Symposium of the Pharmaceutical Compaction Research laboratory, Rutgers University, New Jersey | March 1992 |
| "Measuring and Interpreting Solid Surface Free Energy", Pfizer Research, Groton, Connecticut | May 1992 |
| "Controlled Release Drug Delivery Systems", Centre for Biomaterials Graduate Course, University of Toronto | November 1992 |
| "Liposomes", Ottawa Society of Hospital Pharmacists | November 1992 |
| "Student Interaction in the Classroom", Panel Member for Teaching Initiative Event at Faculty of Arts and Science, University of Toronto | February 1993 |
| Problem-Based Pharmaceutics Demonstration and Lecture, University of Kentucky | May 1993 |

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| "Problem-Based Learning in Large Classes", Department of Occupational Therapy, University of Toronto | June 1993 |
| "Using Self-Directed Groups to Solve Problems in Pharmaceuticals", University of Southern California. | September 1993 |
| AAPS Symposium on Tablet Compaction, " <i>A priori</i> prediction of tablet compaction behaviour using microcharacterization of the properties of tablet constituents", AAPS National Meeting, San Diego | November 1994 |
| "Problem-Based Learning" for Instructional Methods for Graduate Students University of Toronto | November 1994 |
| Using Cases in a Cooperative PBL Environment, AACP, Teachers of Pharmaceutics SIG, Wednesday | July 1995 |
| Thinking Skills and Dispositions - what Counts in PBL? Faculty of Pharmacy, University of Toronto | October 1996 |
| Using Real Problems to Teach Pharmaceutics, Chairs of Pharmaceutics section, AAPS Annual Meeting. Seattle, WA | October 1996 |
| Cognitive Maturity, Learning Skills, and Assessment Rubrics, Assessment Conference, IUPUI, Indianapolis, IN | November 1997 |
| Cognitive Maturity and Teaching Methods, Texas Department of Corrections, Wyndham School District, Clements Unit, Amarillo, TX | October 1998 |
| Lilly Conference, Ohio, Plenary Lecture: Cognitive Growth and Development and their Impact on Learning Style and Learning Needs | November 1999 |
| Managing Age Diversity, Proceedings of the 31 st ASEE/IEEE Frontiers in Education Conference, 2001 | October 2001 |
| The Emperor's New Clothes: Professionalization and Professionalism Education, Faculty of Pharmacy, University of Toronto | November 2003 |
| Course Integration: Assessment and Outcomes, Joint Programming Session by Biological Sciences, Chemistry and Pharmaceutics, AACP Annual Meeting, Cincinnati, OH | July 2004 |
| with Dana Hammer and Bruce Berger. Professionalism Workshop. AACP Teachers Workshop, AACP Annual Meeting, Cincinnati, OH | July 2005 |
| AACP Curriculum//PEP SIG (Joint) Organizer and Speaker. Developing and Implementing Rational Outcomes Based Pharmacy Programs | July 2005 |
| Joint Programming Session by Biological Sciences, Chemistry and Pharmaceutics, Course Integration: Assessment and Outcomes, Sunday 1-2:30, speaker for Pharmaceutics Section | July 2005 |
| Communities of Practice, presentation and consultation at University of Pittsburgh | November 2006 |
| Pharmaceutics Sections SIG: The future of pharmaceutical sciences, AACP Annual Meeting, San Diego, CA | July 2006 |
| Continuous Quality Improvement of Experiential Programs: A Communities of Practice Perspective, PEP SIG Presentation, AACP Annual Meeting, Orlando, FL | July 2007 |
| Evaluating and Rewarding the Scholarship of Teaching, ACCP Annual Meeting, Denver | October 2007 |

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| Primer to Effective Mentoring, ACCP Annual Meeting, Denver CO | October 2007 |
| HBA St. Louis - Career Journeys of Senior Level Women Leaders in Health Care | May 2008 |
| Panelist – Preparing for the Site Visit; ASPA, September 14th | 2009 |
| Post Visit Evaluation – program design ASPA, September 15th | 2009 |
| Challenges and Successes In Interprofessional Education: The NON-Academic Health Center Context. AACP Teacher’s Seminar, Seattle, July 10. | 2010 |
| Educating Student Pharmacists to Build and Advance a Sustainable Profession, Hoy Lecture, University of Wyoming School of Pharmacy, September 23 | 2010 |
| What is all the H"�PE" about: How do we deal with Interprofessional Education?!!; Faculty of Pharmaceutical Sciences, University of British Columbia, October 25. | 2010 |
| Collaborating to Educate Tomorrow’s Leaders in Patient Centered Care, Keynote Address, 4 th Kuwait International Pharmacy Conference | Feb 4-6, 2013 |
| New Health Delivery Models in Relation to Patient-Centeredness and Health Teams, 4 th Kuwait International Pharmacy Conference | Feb 4-6, 2013 |
| A Discussion Forum on Pharmacy Education, 4 th Kuwait International Pharmacy Conference | Feb 4-6, 2013 |
| Breakout Session in Teacher’s Seminar: Cognitive Moral Development. AACP Annual Meeting, Chicago, IL | July 2013 |
| Designing Instruction to Foster the Development of Professionally Mature Practitioners – Rosalind Franklin University | May 2014 |
| Opportunities in Health Sciences – Fresno Adalente Mujer | September 2018 |

Graduate Students Supervised:

| | |
|------|---|
| 1990 | E. Papadimitropoulos, M.Sc. Phm. |
| 1992 | M.C. Lin, M.Sc.Phm. |
| 1992 | J. Young, M.Sc.Phm. |
| 1995 | M. Lee, M.Sc.Phm. |
| 1996 | X. Guo, M.Sc.Phm. |
| 1998 | S. Lum, Ph.D. |
| 2006 | H. Pandya, co-supervised with B. Berger (Ph.D. candidate) |

Graduate Student Committees

| | |
|-----------|--|
| 1991-1992 | Mengsu Yang (Ph.D. candidate, Dept. Of Chemistry, U. of T.) |
| 1992 | Paul Li (Ph.D. candidate, Dept. Of Chemistry, U. of T.) |
| 1995 | Jim Moselhy (M.Sc.Phm. candidate, Faculty of Pharmacy, U. of T.) |

Graduate Student Examining Committees

- 1992 Steven Brown (Ph.D., Erindale College)
 1993 Anh Thu Pham (M.Sc.Ph.m.)

Undergraduate Research Summer Students (University of Toronto)

- 1986 Supervisor for MRC summer student: Susan Lum.
 1988 Primary supervisor for NSERC summer students:
 Jeff Young and Kam Dehdashtian.
 1989 Primary supervisor for NSERC summer students:
 Francisco De Silva, Jeff Young.
 1990 Supervisor for MRC summer student: Monica Lee.
 1990 Supervisor for visiting summer student:
 Karen McKnight, Belfast, Ireland.
 1991 Supervisor for MRC summer student: Cedric Lam.
 1992 Supervisor for NSERC summer student: Alfred Yu.
 1992 Supervisor for summer research student: Shirley Chen.
 1993 Supervisor for PMAC summer student: Paul Au.
 1993 Supervisor for summer research student: Nina Nguyen.
 1994 Supervisor for summer research students: Karen Clarke, Belling Leung,
 Azim Jagani.
 1995 Supervisor for MRC summer student: Marisa Lam.
 1995 Supervisor for summer research students: Ernest Ho, Adam Khan.

Teaching

| | | |
|---|--|------------------|
| California Health Sciences University | Personal Finance for the Healthcare Professional | 2016 |
| | Special Project in Leadership | 2016 |
| St Louis College of Pharmacy | Pharmaceutics | 2007-2008 |
| | State Politics | 2008-2011 (fall) |
| Auburn University Harrison School of Pharmacy | Pharmacy Practice Experience PYDI 5190 | 2005-2006 |
| | Foundations of Pharmacy PYDI 5080 | 2003-2005 |
| | Pharmacy Care Systems Communication II, PYPC5720 | 2004-2006 |

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|---|--|-----------|
| Texas Tech University Health Sciences Center School of Pharmacy | Introduction to Pharmacy and Science, PHAR 1300 | 1996-1997 |
| | Drug Delivery Systems I, PHAR 1321 | 1996-1997 |
| University of Toronto, Faculty of Pharmacy | Cross-appointment to teach patient counseling | 1981-1983 |
| | Teaching Assistant in Pharmaceutics and Pharmaceutical Analysis | 1984-1987 |
| | Pharmacy Student Orientation Symposium (2 day) | 1991-1995 |
| | Research Project: Jacky Tsang, Alfred Yu, PHM 489Y | 1993-1994 |
| | Research Project PHM 499Y | |
| | Rita Ankus | 1989 |
| | Monica Lee, Nicole Lee | 1990 |
| | Michael St Onge | 1993 |
| | Chad Wallace | 1994 |
| | Pharmaceutics and Lab PHM 230Y | 1990-1995 |
| | Biochemistry – protein biochemistry lectures PHM 318Y | 1990-1991 |
| | Introduction to Instructional Methods PHM 347S | 1993-1995 |
| | Physical Chemical Aspects of Surface and Bulk Phenomena in Organic materials (Coordinator) PHM 1113H | 1990-1995 |
| Theory of Pharmaceutical Systems (Lecturer) PHM 1104H | 1990-1995 | |
| Humber College Pharmacy Assistant Programme | Pharmacology | 1984-1986 |
| | Pharmacy Calculations | |
| | Computer Laboratory | |
| | Hospital Dispensing Laboratory | |

Faculty Service and Responsibilities

| | | |
|-----------------------|--------------------------------|-----------|
| University of Toronto | Curriculum Committee | |
| | Member | 1989-1995 |
| | Chair | 1994-1995 |
| | Teaching Development Committee | 1990-1995 |
| | Admissions Committee | |

Wendy Duncan

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|---|----------|--|-----------|
| | | Member | 1992-1995 |
| | | Chair and Admissions Officer | 1993-1994 |
| | | Subcommittee on Accountability and Assessment | |
| | | Chair | 1993-1995 |
| Auburn University School of Pharmacy | Harrison | Director, Office of Teaching Learning and Assessment | 2003-2006 |
| | | Professional Education Committee | |
| | | Member | 2003-2006 |
| | | Committee on Professionalization | |
| | | Co-chair | 2003-2004 |
| | | ACPE Accreditation Process Leader | 2004 |
| | | Ad Hoc Advisory Committee on Consultative Services | |
| | | Chair | 2005 |