

BRAHMADEO DEWPRASHAD

Professor, Department of Science, Borough of Manhattan Community College/CUNY
And Doctoral faculty, CUNY's Ph.D program in Urban Education

Courses Taught

CHE 230, CHE 240, CHE 121, CHE110

Publications

Honors & Awards

2007 NYC Louis Stokes Alliance "Keepers of the Alliance Flame" mentoring award

Professional Preparation

Undergraduate Institution: University of Guyana, Chemistry, BSc

Graduate Institution: Loughborough University, England, Medicinal Chemistry, MSc,

Oklahoma State University, OK, Organic Chemistry, PhD,

Postdoctoral Institution: Massachusetts Institute of Technology, Toxicology,

Areas of research/study

- (1) Development and evaluation of new case studies, demonstrations, and experiments that relate concepts to applications
- (2) Uncovering and rectifying misconceptions
- (3) Development and evaluation of simulations of apparatus set-up and procedures for chemistry labs
- (3) Value of cogenerative dialogues in STEM learning
- (4) Medicinal Chemistry of Caribbean herbal medicines

Publications

1. Dewprashad, B.; Vaz, G. "A Light Lunch? A Case in Calorie Counting." in "Using cases to teach quantitative reasoning/quantitative skills in biology.", Eds. Herrid, K.; Schiller, N. NSTA press, March **2013**.

2. Dewprashad, B. "ConfChem Conference on Case-Based Studies in Chemical Education: Case Study Teaching in the Community College.", *J. Chem. Educ.*, **2013**, 90 (2), pp 262–263.

3. Dewprashad, B.; Vaz, G.; Vaz, S. 2010. "A Case of Respiratory Distress" *J. College Sci. Teaching*, **2013**, 42(3): 64-68.
4. Dewprashad, B.; Pitts, W.; Bayne, G. "Value of Cogenerative Dialogues in STEM learning", Emerging Pedagogies for the New Millenium", Faculty Resource Network publication, Fall **2011**.
5. Dewprashad, B. "The chemistry of cocaine" *J. College Sci. Teaching*, **2010**, 41(1) 20;64-69.
6. Dewprashad, B. "More to the color of roses than meet the eye", *J. College Sci. Teaching*, **2010**, 40(1): 64-67.
7. Dewprashad, B.; Hadir, L. "Developing an invisible message about relative acidities of alcohols in the natural products henna, turmeric, rose petals and vitamin A", *J. Chem. Educ.* **2010**, 86(1): 36-39.
8. Dewprashad, B. "Commonly used painkillers Chemistry and mode of action", *The Chemical Educator*, **2009**, 14(6):247-249.
9. Dewprashad, B. 2010. "The Chemistry of Curcumin, the Health Promoting Ingredient in Turmeric." *J. College Sci. Teaching*. **2010**, 39(1) 56-60.
10. Dewprashad, B.; Zakia-Masiak, S.; Katayama, S.; Hendrix, R. "Antibacterial effects of the sauce from cassava." *J. Medicinal Plants Res.*, **2009**, 3(11).
11. Agwu, N.; Bialas, P.; Dewprashad, B.; and Tacinelli, B. "Teaching Statistics Through Student Engagement in a Study on Alternative Medication Practices. *Mathematics Teaching-Research Journal Online*, **2009**, 3(2): 7-10.
12. Dewprashad, B. 2008. Cats Have Nine Lives, But Only One Liver: The Effects of Acetaminophen, **2009**. *Journal of College Science Teaching*, 38(6): 48-52.
13. Dewprashad, B.; Nesturi,; A. Urena, J.; Acid-catalyzed enolization of Beta-tetralone. *J. Chem. Educ.* **2008**, 85(6): 829-831.
14. Dewprashad, B.. Do you tell your students stories? *Inquirer*, **2007**,14: 14-16.
15. Dewprashad, B. Community based research and community collegesmore than a word in common. *Inquirer*, **2006**, 13: 45-47.
16. Dewprashad, B. Making the right connections" *Inquirer*, **2005**, 12:10-14.
17. Dewprashad, B.; Vaz, G.S.. Cassava: Food for Thought. *Guyana Journal*, **2005**,10(9): 28-30.

18. Dewprashad, B.; Vaz, G.S.; Martin, C. "Alternative Medicines: Old medications in a new millenium. , *Guyana Journal*, **2004**, 9(10):13-15.
19. Dewprashad, B.; Kosky, C.; Vaz, G.S.; Martin, C. "Using clinical cases to teach general chemistry", *J. Chem. Educ.* , **2004**, 81, 1471-72.
20. Dewprashad, B. "Birds do it, bees do it.....but it all started with molecules" *Inquirer*, **Spring 2004**, 27-29.
21. Dewprashad, B. "Making organic chemistry more concrete" *Inquirer*, 3-5, Spring 2003.
22. Dewprashad, B. "Making the Right Connections", article submitted to *Inquirer*, **Fall 2005**, 12:10-14
23. Dewprashad, B. "Case Studies: An Engaging Pedagogy". *Chemistry Outlook*, **2009**, IV:12.
24. Dewprashad, B. "How we learn". *Chemistry Outlook*, **2009**, III:13-14.
25. Dewprashad, B. "How We Teach Probably Matters More Than What We Teach". *Chemistry Outlook*, **2009**, II:13.
26. Dewprashad, B. 2008. Preparing students to thrive in a world that we have only glimpsed. *Inquirer*, **2008**, 15:10-14.
27. P.D. Nguyen, B.T. Dewprashad, J.D. Weaver " New Approach for Enhancing Fracture Conductivity", *S PE Production & Facilities*, **2000**, 15(2) 83-89.
27. Dewprashad, B; Eisenbraun, E. "Fundamentals of Epoxy Formulation." *J. Chem. Educ.*, **1994**, 71 (4), 290-294.
28. Nguyen, PD; Brumley, JL; Dewprashad, B; Dusterhoft, RG. "Stabilizing Wellbores in Unconsolidated Formations for Fracture Stimulation." *SPE Production & Facilities Volume*, **1989**, 15(4) 262-269.
29. Nguyen, PD, Dewprashad, BT. Lab Work Shows Advantages of Liquid Resin-Coated Proppants. *Oil and Gas Journal*. **1998**, 96(12): 64-69.
30. Eisenbraun, EJ; Dewprashad, B; Geno, PW; Taylor, AR. "Synthesis of 2,5,8-trimethyl-3,4-dihydro-1(2H)-naphthalenone-2-d and 3,5,8-trimethyl-3,4-dihydro-1(2H)-naphthalenone-2,2-d2". *Journal of Labeled Compounds and Radiopharmaceuticals*, **1990**, 28(1):25-28.
31. Boykin DW ; Dewprashad, B ; Eisenbraun E. "Oxygen-17 NMR studies on alkyl substituted 1-tetralones: effect of torsion angle change and repulsive van der Waals" interaction" *J. Org. Chem.*, **1990**, 55 (2), pp 425-429.
32. Dewprashad, B.; Eisenbraun, E.J. "Synthesis of 2-hexylnaphthalene"

Organic Preparations and Procedures International, **1989**, 21(5) 645-648.

33. Eisenbraun EJ., Wesley RP, Budhram RS and Dewprashad B., "Acid-catalyzed hydrolysis of semicarbazones." *Chem. Ind.* **1989**, 6: 549.

Patents

1. Weaver, J.D.; Nguyen, P.D.; Stanford, J.R., Dewprashad, B. "Control of fine particulate flowback in subterranean wells." USP 6,047,772, April 11, 2000.
2. Nguyen, P.D.; Dewprashad, B.; LaFontaine, J.M.; Weaver, J.D. "Methods of preventing the production of sand and well fluids." USP 6,213,209, April 10, 2001.
3. Nguyen, P.D.; Dewprashad, B. "Method of reducing water produced with hydrocarbons from wells." USP 6,109,350, August 29,2000.
4. Dewprashad, B.; Nguyen, P.D.; Shriner, K. "Compositions and methods for consolidating subterranean zones." USP 6,016,870, January 25, 2000.
5. Dewprashad, B.; Weaver, J. "Consolidatable particle material and well treatment." EP 643196B1, January 12, 2000.
6. Dewprashad, B; Cole, R.C. "Methods and composition for preventing high density completion well completion fluid loss.: USP 5,996,694, December 7, 1999.
7. Nguyen, P.D.; Dewprashad, B. "Reducing the amount of water produced with hydrocarbons wells." EP 933414A1, August 4, 1999.
8. Dewprashad, B.; Weaver, J.D.; Wilson, S.F.; Desai, B. "Coating well proppant with hardenable resin-fiber composites." USP 5,921,317, July 13,1999.
9. Weaver, J.D.; Stanford, J.R.; Nguyen, P.D.; Bowles, B.K.; Wilson, S.F.; Parker, M.A., Dewprashad, B. "Control of fine particulate flowback in subterranean wells." EP 879935A3, February 10, 1999.
10. Weaver, J.D.; Stanford, J.R.; Nguyen, P.D.; Bowles, B.K.; Wilson, S.F.; Parker, M.A., Dewprashad, B. "Control of fine particulate flowback in subterranean wells." USP 5,853,048, December 29, 1998.
11. Weaver, J.D.; Stanford, J.R.; Nguyen, P.D.; Bowles, B.K.; Wilson, S.F.; Parker, M.A., Dewprashad, B. "Control of fine particulate flowback in subterranean wells." EP 879935A2, November 25, 1998.
12. Weaver, J.D.; Stanford, J.R.; Nguyen, P.D.; Bowles, B.K.; Wilson, S.F.; Parker, M.A., Dewprashad, B. "Control of fine particulate flowback in subterranean wells." USP 5,839,510, November 24, 1998.
13. Weaver, J.D.; Stanford, J.R.; Nguyen, P.D.; Bowles, B.K.; Wilson, S.F.; Parker, M.A., Dewprashad, B. "Control of fine particulate flowback in subterranean wells." USP 5,775,425, July 7, 1998.
14. Weaver, J.D.; Stanford, J.R.; Dewprashad, B, Nguyen, P.D."Control of fine particulate flowback in subterranean wells." USP 5,833,000, November 10, 1998.
15. . Weaver, J.D.; Stanford, J.R.; Dewprashad, B, Nguyen, P.D."Control of fine particulate flowback in subterranean wells." EP 859125A1, August 19, 1998.

16. Weaver, J.D.; Stanford, J.R.; Nguyen, P.D.; Bowles, B.K.; Wilson, S.F.; Parker, M.A., Dewprashad, B. "Control of fine particulate flowback in subterranean wells." USP 5,775,425, July 7, 1998.
17. Weaver, J.D.; Stanford, J.R.; Nguyen, P.D.; Bowles, B.K.; Wilson, S.F.; Dewprashad, B.; Parker, M.A., "Control of fine particulate flowback in subterranean wells." USP 5,775,425, July 7, 1998.
18. Dewprashad, B.; Weaver, J. "Epoxy resin composition and well treatment method." USP 5, 609,2007, March 11, 1997.
19. Dewprashad, B.; Weaver, J. "Epoxy resin composition and well treatment method." USP 5, 559,086, Sept. 24, 1996.
20. Dewprashad, B.; Weaver, J. "Consolidatable particulate material and well treatment method." EP 643196A3, November 15, 1995.
21. Dewprashad, B. "Method of producing coated proppants compatible with oxidizing gel breakers." USP 5,420,174, May 30, 1995.
22. Dewprashad, B.; Weaver, J. "Consolidatable particulate material and well treatment method." EP 643196A2, March 15, 1995.
23. Dewprashad, B.; Weaver, J. "Method for coating proppants with resin/aromatic amine." USP 5, 368, 102, Nov. 29, 1994.
24. Dewprashad, B.; Weaver, J. "Consolidatable particulate material and well treatment method." USP 5,368,102, Sept. 9, 1993.
25. Dewprashad, B. "method of producing coated proppants compatible with oxidizing breakers." USP 5,420, 174. Nov. 2, 1992.