Obituary:

## Evelyn M. Nelson



Born as Evelyn Merle Roden in 1943 at Hamilton, Ontario, Dr. Evelyn Nelson died on 1 August 1987 following several years of a courageous and carefully concealed struggle against cancer.

Her university career began with a number of years as a postdoctoral fellow and research associate at McMaster, after which she was appointed associate professor in 1978 and promoted to full professor in 1983.

She was a passionate academic of the highest standards and both a deeply devoted teacher and a profoundly committed research mathematician. She published some 40 papers in several areas of algebra, performed various important university tasks at McMaster, including chairing Computer Science for some years, and was active in committees of both the Canadian Mathematical Society and the American Mathematical Society.

Besides all this, she was an exemplary mother to her two daughters, a loyal friend to all who were close to her, and a warmly congenial hostess to her visitors. To all who knew her, her death came as a most grievous loss.

## Publications

1. Finiteness of semigroups of operators in universal algebra, Can. J. Math. 19 (1967) 764-768; MR35 (1968) \# 6606.
2. The lattice of equational classes of commutative semigroups, Can. J. Math. 23 (1971) 875895; MR44 (1972) \# 5395.
3. The lattice of equational classes of semigroups with zero, Can. Math. Bull. 14 (1971) 531534; MR47 (1974) \# 1983.
4. With Stanley Burris, Embedding the dual of $f_{m}$ in the lattice of equational classes of commutative semigroups. Proc. A.M.S. 30 (1971) 37-39; MR44 (1972), \# 2857.
5. With Stanley Burris, Embedding the dual of in the lattice of equational classes of semigroups, Alg. Univ. 1 (1971) 248-253; MR45 (1973) \# 5257.
6. With B. Banaschewski, Equational compactness in equational classes of algebras, Alg. Univ. 2 (1972) 142-155; MR46 (1973) \# 7125.
7. With B. Banaschewski, On residual finiteness and finite embeddability, Alg. Univ. 2 (1972) 361-364; MR47 (1974) \# 6590.
8. With B. Banaschewski, Equational compactness in infinitary algebras, Coll. Math. 27 (1973) 197-205; MR48 (1974) \# 5958.
9. Not every equational class of infinitary algebras contains a simple algebra, Coll. Math. $\mathbf{3 0}$ (1974) 27-30; MR50 (1975) \# 4445.
10. The embedding of a distributive lattice into its ideal lattice is pure, Alg. Univ. 4 (1974) 135140; MR50 (1975) \# 9734.
11. With B. Banaschewski, Boolean powers as algebras of continuous functions, Proc. Latt. Theory Conf. (Ulm 1975), pp. 138-145. Univ. Ulm, Ulm 1975. MR55 (1978) \#2704.
12. With B. Jonsson, Relatively free products in regular varieties, Alg. Univ. 4 (1974) 14-19; MR50 (1975) \# 12856.
13. Infinitary equational compactness, Alg. Univ. 4 (1974) 1-13; MR 50 (1975) \# 12863.
14. Injectivity and equational compactness in the class of $x$-semilattices, Can. Math. Bull. 18 (1975) 387-392; MR52 \# 13532.
15. On the adjointness between operations and relations and its impact on atomic compactness, Coll. Math. 33 (1975) 33-40; MR52 \# 13573.
16. Semilattices do not have equationally compact hulls, Coll. Math. 34 (1975) 1-5; MR54 (1977) \# 212.
17. Some functorial aspects of atomic compactness, Alg. Univ. 5 (1975), 369-380; MR52 \# 13590.
18. With B. Banaschewski, Tensor products and bimorphisms, Can. Math. Bull. 19 (1976) 385402; MR56 (1978) \# 447.
19. Galois connections as left adjoint maps, Comm. Math. Univ. Carolinae 17 (1976) 523-541; MR54 (1977) \# 7331.
20. Classes defined by implications, Alg. Univ. 7 (1977) 405-408; MR56 (1978), \# 218.
21. With B. Banaschewski, Elementary properties of limit reduced powers with application to Boolean powers. Contributions to Universal Algebra (Collow. Jzsef Attila Univ., Szeged), pp. 21-25, Colloq. Math. Soc. Jnos Bolyai, Vol. 17, North Holland, Amsterdam, 1977, MR58 (1979) \# 5178.
22. Algebras of continuous functions in universal algebra. General topology and its relations to modern analysis and algebra IV. (Proc. Fourth Prague Topological Sympos., Prague, 1976), Part B, pp. 331-332. Soc. Czech. Math. and Phys., Prague 1977, MR58 (1979) \# 5466.
23. With B. Banaschewski, On the non-existence of injective near-ring modules, Can. Math. Bull. 20 (1977) 17-23; MR57 (1979) \# 12612.
24. Filtered products of congruences, Alg. Univ. 8 (1978) 266-268; MR57 (1979) \# 5861.
25. Internal hom functors for polarities, Can. Math. Bull. 22 (1979) 187-202.
26. With B. Banaschewski, Boolean powers as algebras of continuous functions, Dissertationes Mathematicae CLXXILX (1980) 5-55; MR81i: 03040.
27. The independence of the subalgebra lattice, congruence lattice, and automorphism group of an infinitary algebra, J. Pure Appl. Alg. 17 (1980) 187-201; MR81g: 08003.
28. An elementary proof that there are no non-trivial injective lattices, Alg. Univ. 10 (1980) 164-265; MR81c: 06009.
29. Categorical and topological aspects of formal languages, Math. Systems Theory 13 (1980) 255-273; MR82a: 68149.
30. On exponentiating exponentiation, J. Pure Appl. Alg. 20 (1981) 79-91; MR82c: 18010.
31. Z-Continuous algebras, Proc. Continuous Lattices Workshop IV, Bremen, 1979. Lecture Notes in Mathematics Vol. 871, pp. 315-334, Springer, 1981.
32. Homomorphisms of mono-unary algebras, Pacific J. Math. 99 (1982) 427-429.
33. With J. Adamek and J. Reiterman, Tree constructions of free continuous algebras, J. Comput. System Sci. 24 (1982) 114-146.
34. With B. Banaschewski, Completions of partially ordered sets as reflections, SIAM J. Comput. 11 (1982) 521-528.
35. Iterative Algebras, Theoret. Comput. Sci. 25 (1983) 67-94.
36. With J. Adamek, Separately continous algebras, Theoret. Comput. Sci. 27 (1983) 225-231.
37. Recent results on continuous ordered algebras, FCT 1985, Cottbus. LNCS 199, pp. 320-330. Springer 1985.
38. With Octavio Garcia, On the non-existence of free complete distributive lattices, Order 1 (1985) 399-403.
39. With J. Adamek, J. Reiterman, and V. Koubek, Arbitrarily large continuous algebras on one generator, Trans. A.M.S. 291 (1985) 681-699.
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42. With J. Adamek, Absolutely definable varieties of continuous algebras, Alg. Univ. (to appear).
43. With J. Adamek and A. Mekler, On the logic of continuous algebras, Notre Dame J. Formal Logic (to appear).
44. With A. Mekler and S. Shelah, A variety with solvable, but not uniformly solvable, word problem. (submitted).
45. with J. Adamek, J. Reiterman, and A. Tarlecki, Comparison of subset systems.
