

## CURRICULUM VITAE - 2018

PAUL J. ALLEN

### ADDRESS:

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### EDUCATION:

B.S. - Arlington State College, Arlington, TX, 1964

M.S. - Texas Christian University, Fort Worth, TX, 1966

Ph.D. - Texas Christian University, Fort Worth, TX, 1967

### EMPLOYMENT:

1964 - 1967 Teaching Assistant, Texas Christian University, Fort Worth, Texas

1967 - 1972 Assistant Professor, University of AL

1972 - 1988 Associate Professor, University of AL

1989 – 1999 Undergraduate Mathematics Director, University of AL

1988 - Present Professor of Mathematics, University of AL

### SERVICE:

Served as a member of the following committees:

1. Undergraduate Advisory Committee 1974-1975 (Math)
2. Graduate Advisory Committee 1977-1978 (Math)
3. A & S Committee on Instruction 1991-97 (A & S)
4. Parking and Traffic Committee 1989-1998\* (University)
5. Academic Advising Committee 1991-1995\* (University)
6. State Articulation Committee for Mathematics 1996-1998\* (State)

\* Chairman

7. External Ph.D. committee member for Ms. Manju Kahn, "Unit Groups in Group Algebras", Indian Institute of Technology, Delhi (2006-2007)

8. Constructed Division I Comprehensive Exam for State of Alabama (2006&2007)

Served as the "Dissertation Director" for the following Ph.D. students:

1. William R. Windham, 1970
2. Eddy Joe Brackin, 1970
3. Louis Dale, 1973
4. Shirley Edwards, 1978
5. Lee R. Ivory, 1981

### **MEETINGS ATTENDED; TALKS GIVEN, ETC:**

\*Denotes that research was presented

1. AMS Annual Meeting, Houston, TX, 1967
2. AMS Annual Meeting\*, San Francisco, CA 1968
3. AMS Regional Meeting\*, Knoxville, TN 1968
4. AMS Annual Meeting\*, New Orleans, LA 1969
5. Semiring Colloquium-Invited Address\*, Texas Christian University, Fort Worth, Texas, 1969
6. AMS Annual Meeting\*, San Francisco, CA 1974
7. AMS Annual Meeting\*, Washington, D.C., 1975
8. AMS Ring Theory Conference, St. Louis, MO 1975
9. AMS Annual Meeting\*, San Antonio, Texas 1976
10. AMS Conference on Group Rings, Norman, OK 1978
11. AMS Annual Meeting\*, San Antonio, Texas 1980
12. National Calculus Conference, Washington, D.C., 1989

### **PUBLICATIONS**

1. A Fundamental Theorem of Homomorphisms for Semirings, Proc. Amer. Math. Soc. (2) 21 (1969), 412-418.
2. Cohen's Theorem for a Class of Noetherian Semirings, Publ. Math. (Debrecen) 17 (1970), 169-171.

3. Operator Semigroups with Applications to Semirings, W. R. Windham, Publ. Math. (Debrecen) 20 (1973), 161-175.
4. A Basis Theorem for the Semiring Part of a Boolean Algebra, E. J. Brackin, Publ. Math. (Debrecen) 20 (1973), 153-155.
5. An Extension of the Hilbert Basis Theorem to Semirings, Publ. Math. (Debrecen) 22 (1975), 31-34.
6. Ideal Theory in the Semiring  $Z^+$ , L. Dale, Publ. Math. (Debrecen) 22 (1975), 219-224.
7. A Characterization of Steinitz Group Rings, J. Neggers, Proc. Amer. Math. Soc. 49(1975), 39-42.
8. Ideal Theory in Polynomial Semirings, L. Dale, Publ. Math. (Debrecen) Vol. 23, No. 3-4, pp. 185-190, 1976.
9. An Extension of the Hilbert Basis Theorem, L. Dale, Publ. Math. (Debrecen), Vol. 27 (1980), 31-34.
10. Central Perfect Rings, J. Neggers, Journal of the Korean Math Society (1980).
11. A Characterization of Units in  $Z[A_4]$ , C. Hobby, Journal of Algebra, Vol. 66 (1980), 534-543.
12. Direct Products of Operator Semigroups, Allen, Dale, and Edwards, Journal of Indian Math. Society, Vol. 40, 1984, pp. 335-355.
13. Units in integral group rings of some metacyclic groups, (with C. Hobby), Canadian Bulletin of Math., Vol. 30 (2), 1987.
14. A characterization of units in  $ZS_3$ , (with C. Hobby), Proc. A.M.S., Vol. 99(1987), 9-14.
15. A characterization of units in  $ZS_4$ , (with C. Hobby), Communications in Algebra, 16(7), 1479-1505 (1988).
16. Elements of finite order in  $V(ZA_4)$ , (with C. Hobby), Pacific Journal of Mathematics, 138(1), 1989.
17. B-Algebras and Groups, with J. Neggers and H.S. Kim, Scientifiae Mathematicae Japonicae, 59, No. 1 (2004), 23-29.
18. L-UP and Mirror Algebras, with J. Neggers and H.S. Kim, Scientifiae Mathematicae Japonicae, Vol. 9 (2004), 381-388.
19. Smarandache Disjoint in BCK/d-algebras, with J. Neggers and K.S. Kim, JAMS (e 2004), p.485-487.

20. Fuzzy Algebras and Directions, with J. Neggers and K.S. Kim, The Journal of Fuzzy Mathematics, Vol. 14, No. 1, 2006.
21. Ideal Theory in Commutative A-Semirings, with J. Neggers and H.S. Kim, Kyungpook Mathematical Journal, vol. 46(2006), 267-276.
22. Supercommutative d-Algebras in the Smarandache Setting, with J. Neggers and H.S. Kim, Scientifiae Mathematicae Japonicae., vol. 62(2006), 131-138.
23. Companion d-Algebras, with J. Neggers and H.S. Kim, Math Slovaca, Vol. 57, No. 2(2007) 92-104.
24. Construction of many d-algebras, Communications of the Korean Mathematical Society, 24(2009), No. 3, pp. 361-366.
25. Deformations of d/BCK-algebras, with J. Neggers and H.S. Kim, Bulletin of the Korean Mathematical Society, 48(2011), No. 2, pp. 315-324.
26. Smarandache algebras and their groups, with J. Neggers and H.S. Kim, Bulletin of the Iranian Mathematical Society, (2012) Vol. 38, pp. 1063-1077.
27. Ideal Theory in Graded Semirings, with J. Neggers and H.S. Kim, Applied Mathematics and Information Sciences, No. 1, 87-91, (2013).
28. Groups, B-algebras and several logically equivalent types of groupoids, with J. Neggers and H.S. Kim, Sylwan Journal, vol. 158, issue 5, (2015).
29. Polynomial Evaluation Algebras and their Groups, with J. Neggers and H.S. Kim, Bulletin of the Iranian Mathematical Society, (2016) Vol. 42, pp. 987-997
30. Several types of groupoids induced by two-variable functions, with J. Neggers, and H.S. Kim, (2016) Springer Plus, 5(1), pp. 1-11