Ronald J. Gould

Goodrich C. White Professor Emeritus (retired Sept. 1, 2016)

Degrees:	Ph.D. (1979) Western Michigan University (Mathematics)M.S. (1978) Western Michigan University (Computer Science)B.S. (1972) SUNY at Fredonia (Mathematics)
Experience	 9.1.2016 Goodrich C. White Prof. Emeritus 2001-2016 Goodrich C. White Professor, Emory University 1990-2001 Professor, Emory University 1985-1990 Associate Professor, Emory University 1979-1985 Assistant Professor, Emory University 1978-1979 Lecturer, San Jose State University 1973-1979 T. A. and Doctoral Fellow, Western Michigan University 1972-1973 T. A., SUNY at Fredonia
Ed. Board	 INVOLVE Bulletin of the Institute for Combinatorics and its Applications J. Combin. Inform. & System Sciences Ars Combinatoria till 2022 J. Combinatorial Math. and Combinatorial Computing till 2022
Honors:	2018 Emory Emeritus College Faculty Award of Distinction2017 Heilbrun Distinguished Emeritus Fellow17th Atlanta Lecture Series at GA State, April, 2016 dedicated to me

Service to Emeritus College: Executive Committee 2019 - date, Mind Matters Committee 2018 - date, Chair 9.22-date, Awards Committee 2021-2022, Zoom Team 2021 - date, Retirement Seminar Panel 2019

Book Chapters: Developments on Saturated Graphs, 50 Years of Combinatorics, Graph Theory, and Computing, CRC Press, Ed. by F. Chung, R. Graham, F. Hoffman, L. Hogben, R. Mullin, and D.West. Discrete Math. Appl., CRC Press, Boca Raton, FL (2020).

Book Reviews: Luck, Logic, and White Lies. The Mathematics of Games, Second Edition by Jörg, Bewersdorff, CRC Press(2021). For *Mathematical Intellingencer*, Vol. 44, Sept. 2022, Issue 3, pp 286-287.

Research Publications:

- Minimum degree and dominating paths, with R. J. Faudree, M. S. Jacobson and D. B. West, J. Graph Theory 84(2017), no. 2, 202-213.
- 2. A note on Extending Bondy's meta-conjecture, with M. Cream and K. Hirohata. Austral. J. of Combin. 67(2017), 463-469.
- 3. Placing vertices at precise locations on a hamiltonian cycle, with C. Magnant and P. S. Nowbandegani. Graphs & Combin. 33(2017), no 2, 369-385.
- Saturation spectrum of paths and stars, with J. Faudree, R. Faudree, M. Jacobson and B. Thomas. Discussiones Math Graph Theory 37(2017), no. 3, 811-822.
- Forbidden subgraphs for chorded Pancyclicity, with M. Cream and V. Larsen. Discrete Math. 340(2017), no. 12, 2878-2888.
- 6. On vertex disjoint cycles and degree sum conditions, with K. Hirohata and A. Keller. *Discrete Math.* 341(2018), no. 1, 203-212.

- 7. On $K_t e$ Saturated graphs, with J. Fuller. Graph and Combin. 34(2018), no. 1, 85-95.
- 8. Cycles with a chord in dense graphs, with G. Chen, X. Gu, and A. Saito. *Discrete Math.* 341(2018), no. 8, 2131-2141.
- Degree sum and vertex dominating paths, with J. R. Faudree, R.J. Faudree, P. Horn and M. S. Jacobson. J Graph Theory 89(2018), no. 3, 250-265.
- 10. A generalization of a result of Catlin: 2-factors in line graphs, with Emily Hynds. Australasian J. Combin. 72 (2018), 164-184.
- Extending vertex and edge pancyclic graphs, with M. Cream and K. Hirohata. Graphs Combin. 34(2018), no. 6, 1691-1711.
- Gaps in the saturation spectrum of trees, with P. Horn, M. S. Jacobson and B. Thomas. Discuss. Math. Graph Theory 39(2019), no. 1, 157-170.
- On a conjecture on spanning trees with few branch vertices, with W. Shull. J. Combin. Math. Combin. Computing 108(2019), 259-283.
- 14. On spanning trees with few branch vertices, with W. Shull. Discrete Math. 343 (2020), no. 1, 111587, 7pp.
- 15. Spanning bipartite graphs with high degree sum in graphs, with G. Chen, S. Chiba, X. Gu, A. Saito, M. Tsugaki and Tomoki Tamashita. *Discrete Math.* 343 (2020).
- On independent triples and vertex-disjoint chorded cycles in graphs, with K. Hirohata and A. Keller. Australasian J. Combin. 77(3), 355-372 (2020).
- On degree sums comditions and vertex-disjoint chorded cycles, with B. Elliott and K. Hirohata. Graphs & Combin. 36(2020), no. 6, 1927–1945.
- Structure of sparse k-critical graphs, with V. Larsen and L. Postle, J. Combin. Theory B. Vol. 156, (2022) pp194–222.
- 19. Results and Problems On Chorded Cycles: A Survey, Graphs and Combinatorics, 38 (2022), no. 6, 189.
- 20. On Fan Saturated Graphs, with Jessica Fuller, INVOLVE Vol. 16, No. 4, 2023, pp 637–657.
- On the saturation spectrum of odd cycles, with A. Kündgen and M. Kang. J. Graph Theory. (2023), 1–12. https://doi.org/10.1002/jgt.23052.
- 22. Chorded k-pancyclic and weakly k-pancyclc graphs, with M. Cream. Discuss. Math. Graph Theory. To Appear.

Papers Submitted:

23. Chorded pancyclicity with distance two degree condition and doubly chorded pancyclicity, with M. Cream and K. Horohata. *Australasian J. Combinatorics.*

Ph.D. Students Directed: Jessica Fuller, On Saturation Spectrum, May 2017. Warren Shull, On spanning trees with few branch vertices, May 2018. Ariel Keller, On chorded cycles and degree conditions, May 2018.

Talks Presented: 42 since retirement.