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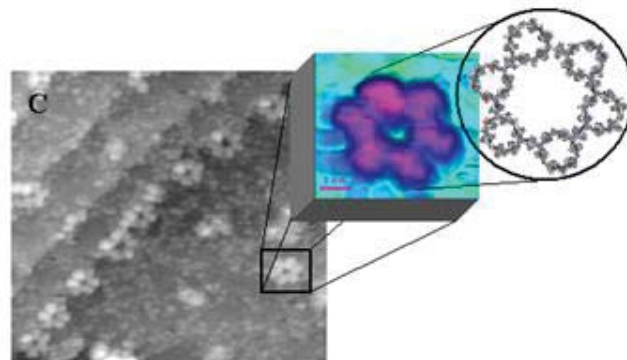
**Biography:** George R. Newkome received his B.S. and Ph.D. in Chemistry from Kent State University. He was a postdoctoral fellow at Princeton University before joining Louisiana State University where he became a full professor in 1978, and then LSU Distinguished Research Master in 1982. In 1986, Dr. Newkome joined the University of South Florida in Tampa as their first Vice President for Research with a faculty appointment in chemistry. He was later named Distinguished Research Professor in 1992. From 2001 to Fall, 2014, he was Vice President for Research and Dean of the Graduate School at The University of Akron. Currently, he is Chairman of the Board of the Northeast Ohio Student Venture Fund and on the board of directors of 14 corporations as well as numerous editorial boards. He is an honorary professor at Wenzhou University and Affiliate Professor at Florida Atlantic University. He has published over 500 papers, 29 US and 23 foreign patents, as well as edited/written over 20 scientific books and monographs.

### Awards/Accomplishments:

- Fellow, Royal Society of Chemistry (2013-)
- Fellow, National Academy of Inventors (2012-)
- Fellow, Ohio Academy of Sciences (2011-)
- Fellow, AAAS (1992-)
- Docteur Honoris Causa, de l'universite de Bordeaux, 2015

### Research Interests:

His research interests include synthetic and structural studies in diverse areas of chemistry and nanotechnology, including supramolecular construction, dendritic polymer synthesis and application, as well as metallosuperstructure fabrication and utilitarian features.



### Application Focus:

*Nanotechnology* – light-emitting diodes, solar cells, and components, nanoelectronics, sensors

*Materials* – nanocomposites, organic-inorganic hybrid engineering, surface modification

*Supramolecular Engineering* – self-assembly, macromolecular scaffolds, nanopatterned materials, nanofiber and polycharged molecular construction

**Unique Capabilities:** Synthetic methodology, molecular & materials design, characterization, pilot plant scale-up, molecular simulation ( [www.dendrimers.com](http://www.dendrimers.com) )

### Recent Publications/Patents:

1. Sarkar, R.; Kai, G.; Moorefield, C. N.; Saunders, M. J.; Wesdemiotis, C.; Newkome, G. R. "One-step, Multicomponent, Self-Assembly of a First-Generation Sierpiński Triangle: From a Fractal Design to Chemical Reality," *Angew. Chem. Int. Ed.* **2014**, 53 (45), 12182-12185.
2. Xie, T.-Z.; Guo, K.; Guo, Z.; Gao, W.; Lukasz, W.; Ning, G.; Huang, M.; Lu, X.; Li, J.; Chen, Y.; Moorefield, C. N.; Saunders, M. J.; Cheng, S. Z. D.; Wesdemiotis, C.; Newkome, G. R., "Precise Molecular Fission and Fusion: The Quantitative Self-Assembly and Chemistry of a Metallo-cuboctahedron," *Angew. Chem. Int. Ed.* **2015**, 54 (32), 9224-9229.
3. Newkome, G. R.; Moorefield, C. N. "From 1 → 3 Dendritic Designs to Fractal Supramacro-molecular Complex Constructs," *Chem. Soc. Rev.* **2015**, 44 (12), 3954-3967.
4. Liu, D.; Liu, Q.; Li, Y.; Wang, M.; Yang, X.; Wu, T.; Moorefield, C. N.; Wang, P.; Newkome, G. R. "TpyRu<sup>2+</sup>-based bismetallopolymer and its performance in catalytic water oxidation (Tpy = 2,2':6',2"-terpyridine, Ru = ruthenium)," *Dalton Trans.* **2015**, 44 (25), 11269-11273.
- 5 "Metal-Mediated Reversible Self-Assembly of Carbon Nanotubes," U.S. Pat. 8,895,742 (Nov. 25, **2014**).
6. "Dendron-Tethered and Templated CdS Quantum Dots on Single-Walled Carbon Nanotubes," U.S. Pat. 9,059,409 (June 16, **2015**).