



Bio: Dr. Steven Little is currently the William Kepler Whiteford Endowed Professor of Chemical and Petroleum Engineering, Bioengineering, Pharmaceutical Sciences, Immunology, Ophthalmology and The McGowan Institute for Regenerative Medicine at the University of Pittsburgh. He received his PhD in Chemical Engineering from MIT in 2005 under the mentorship of Robert Langer, with his thesis winning the American Association for Advancement of Science's Excellence in Research Award. Dr. Little's research focuses on controlled release and pharmaceutical formulation as well as biomaterial and pharmaceutical excipient interactions, materials behavior *ex vivo* and *in situ*, and biomimetic design principles. Dr. Little was the first to develop a broadly-applicable mathematical design tool

for degradable polymer-based controlled release formulations that produce customizable controlled release behavior. This work led to the founding of the first custom design controlled release formulation design company (for pharmaceutical industry, agricultural industry, and academic laboratories) in Pittsburgh, PA (Qrono Inc.). Dr. Little has also developed a number of novel controlled release and drug delivery formulations that mimic the body's natural processes including systems that can mimic the natural sequence of regenerative cues in wound healing as well as targeting the homing/recruitment of specific cell populations (immune cells, stem cells, etc.) to a local site for more highly sophisticated, next-generation regenerative medicine that requires only picograms-nanograms per kilogram of active ingredient per dose.

Dr. Little's research has resulted to date in over 90 peer reviewed publications and the founding of two spin-out companies located in Pittsburgh, PA. Dr. Little has delivered over 60 invited talks including 6 plenaries and 6 keynote lectures. Dr. Little has been recognized by national and international awards including the Curtis W. McGraw Research Award from the ASEE, being elected as a fellow of BMES and AIMBE, a Carnegie Science Award for Research, the Society for Biomaterials' Young Investigator Award, the Controlled Release Society's Young Investigator Award, being named a Camille Dreyfus Teacher Scholar, being named an Arnold and Mabel Beckman Young Investigator, and being elected to the Board of Directors of the Society for Biomaterials and also the Controlled Release Society. Dr. Little's exceptional teaching and leadership in education have been recognized by a 2nd Carnegie Science Award for Post-Secondary Education. Furthermore, Dr. Little was the first faculty in the Swanson School to receive both the Chancellor's Teaching and Research Awards. Most recently, Dr. Little became the first and only in the entire University's history, to be honored with all three of the Chancellor's Awards: *Chancellor's Distinguished Research Award, Chancellor's Distinguished Teaching Award, and Chancellor's Distinguished Public Service Award*. Dr. Little was named one of Pittsburgh Magazine's 40 under 40, a "Fast Tracker" by the Pittsburgh Business Times, and also one of only five individuals in Pittsburgh who are "reshaping our world" by Pop City Media.

Dr. Little currently serves as the 12th Chairman of the Department of Chemical & Petroleum Engineering.