BIOGRAPHICAL SKETCH

Paul R. Van Tassel

Professional Preparation

Postdoctoral	**Université Pierre et Marie Curie**, Paris, France Laboratoire de Physique Théorique des Liquides	10/93-7/96
Graduate	**University of Minnesota Graduate School**, Minneapolis, MN Ph.D., 1993, Department of Chemical Engineering and Materials Science	9/88-10/93
Undergrad.	**Saint Olaf College**, Northfield, MN B.A., 1987, Majors: Chemistry and Mathematics	9/83-5/87

Appointments

Professor & Dept. Chair	**Yale University**, New Haven, CT Department of Chemical and Environmental Engineering	7/10-present
Professor	**Yale University**, New Haven, CT Department of Chemical Engineering	1/07-6/10
Associate Professor	**Yale University**, New Haven, CT Department of Chemical Engineering	1/03-12/06
Associate Professor	**Wayne State University**, Detroit, MI Department of Chemical Engineering and Materials Science	8/01-12/02
Assistant Professor	**Wayne State University**, Detroit, MI Department of Chemical Engineering and Materials Science	8/96-8/01

Honors

Connecticut Academy of Science and Engineering, Fulbright Scholarship (France), John J. Lee Associate Professorship of Chemical Engineering at Yale, National Academy of Engineering's *Frontiers of Engineering*, National Science Foundation CAREER Award, NATO-NSF Post-Doctoral Fellowship, Chateaubriand Post-Doctoral Fellowship.

Publications Related to Proposed Work

- "Layer-by-layer films as biomaterials: bioactivity and mechanics", E. Pauthe and P. R. Van Tassel, *Journal of Biomaterials Science – Polymer Edition*, **2014**, <u>25</u>, 1489.
- "Nanotemplated polyelectrolyte films: toward a porous biomolecular delivery system", A. Gand, M. Hindie, D. Chacon, P. R. Van Tassel, and E. Pauthe, *BioMatter*, **2014**, <u>4</u>, e28823.
- "Carbon nanotube bundling: influence on layer-by-layer assembly and antimicrobial activity", S. Aslan, J. Määttä, B. Z. Haznedaroglu, L. D. Pfefferle, M. Elimelech, E. Pauthe, M. Sammalkorpi, and P. R. Van Tassel, *Soft Matter*, **2013**, <u>9</u>, 2136.

- "Porous nanofilm biomaterials via templated layer-by-layer assembly", C. Wu, S. Alsan, A. Gand, J. Wolenski, E. Pauthe, and P. R. Van Tassel, *Advanced Functional Materials*, **2013**, 23, 66.
- "Nanofilm biomaterials: localized cross-linking to optimize mechanical rigidity and bioactivity", J. A. Phelps, M. Hindie, M.-C. Degat, E. Pauthe, and P. R. Van Tassel, *Langmuir*, **2011**, 27, 1123.

Other Significant Publications

- "Carbon nanotube based antimicrobial biomaterials formed via layer-by-layer assembly with polypeptides", S. Aslan, M. Deneufchatel, S. Hashmi, N. Li, L. D. Pfefferle, M. Elimelech, E. Pauthe, and P. R. Van Tassel, *Journal of Colloid and Interface Science*, **2012**, 38, 268.
- "Pre-osteoblasts on poly(L-lactic acid) and silicon oxide: influence of fibronectin and albumin adsorption", M. Hindie, M.-C. Degat, F. Gaudiere, O. Gallet, P. R. Van Tassel, and E. Pauthe, *Acta Biomaterialia*, **2011**, 7, 387.
- "Antimicrobial biomaterials based on carbon nanotubes dispersed in poly(lactic-co-glycolic acid)", S. Aslan, C. Zoican Loebick, S. Kang, M. Elimelech, L. D. Pfefferle, and P. R. Van Tassel, **2010**, *Nanoscale*, 2, 1789.
- "Multilayer nanofilms as substrates for hepatocellular applications", C. R. Wittmer, J. A. Phelps, C. M. Lepus, W. M. Saltzman, M. J. Harding, and P. R. Van Tassel, **2008**, *Biomaterials*, 29, 4082.
- "Fibronectin terminated multilayer films: protein adsorption and cell attachment studies", C. R. Wittmer, J. A. Phelps, W. M. Saltzman, and P. R. Van Tassel, *Biomaterials*, **2007**, 28, 851.

Synergistic Activities

- Dept. Chair, Chemical and Environmental Engineering, Yale University, 7/10-present.

Collaborators & Other Affiliations

a. Collaborators
Menachem Elimelech (Yale), Emmanuel Pauthe (Cergy-Pontoise, France), Lisa Pfefferle (Yale), W. Mark Saltzman (Yale), Maria Sammalkorpi (Aalto, Finland), Lev Sarkisov (Edinburgh), John Walz (Virginia Tech)

b. Graduate and Postdoctoral Advisors:
Graduate: H. Ted Davis and Alon V. McCormick, University of Minnesota
Postdoctoral: Gilles Tarjus and Pascal Viot, Universite Pierre et Marie Currie (Paris)

c. Postgraduate Sponsor and Thesis Advisor (2009-2014):
Postdoctoral: Maria Sammalkorpi (Aalto University, Finland); 6 Total Postdocs
Thesis: Corinne Wittmer (INSERM, France), Babak Fazelabdolabadi (University of Tehran), Jennifer Phelps (BioMat Sciences), Seyma Aslan (Yale); 10 Total Thesis Students