

## Recent Publications GABRIEL CHU

### PUBLICATIONS

- [1] T-M. G. Chu, "Solid Freeform Fabrication of Tissue Engineering Scaffolds," in *Scaffolding in Tissue Engineering*, X. Ma and J. Eliseeff (Eds.), Marcel Dekker, Inc., 2004 (in press).
- [2] S.J. Hollister, J.M. Taboas, R.M. Schek, C.Y. Lin, and T.M. Chu, "Design and Fabrication of Bone Tissue Engineering Scaffolds," in *Bone Tissue Engineering*, Hollinger et al. (Eds.), CRC Press, LLC, 2004 (in press).

### PRESENTATIONS

- [1] M.L. Grubb, T.M. Chu, J.A. Bethel, and R.L. Duncan, "Manufacturing and Cell Proliferation on Bioactive Glass Scaffolds," *Proc. 106<sup>th</sup> Annual Meeting of American Ceramic Society*, Indianapolis, IN, April 18-21, 2004.
- [2] T.M. Chu, M. Al-Shammari, and J. Platt, "Logarithmic Relation Between Curing Time and Curing Depth," *Proc. Annual Meeting of the Intl. Assoc. of Dental Research*, Honolulu, HI, March 10-13, 2004.
- [3] K.H. Chong, T.M. Chu, and J.Y. Chai, "Probability of Failure for Zirconia Fiber-Reinforced Alumina Ceramics," *Proc. Annual Meeting of the Intl. Assoc. of Dental Research*, Honolulu, HI, March 10-13, 2004.
- [4] S.J. Hollister, C.L. Flanagan, A. Kasemkhani, H. Van Lenthe, T.M. Chu, J.M. Taboas, R. Muller, P.H. Krebsbach, and F.E. Feinberg, "Scaffold Pore Design Effects on Bone Ingrowth and Stiffness," *Proc. Annual Meeting of the Intl. Assoc. of Dental Research*, Honolulu, HI, March 10-13, 2004.
- [5] M.L. Grubb, T.M. Chu, J.A. Bethel, and R.L. Duncan, "The Manufacturing and In Vitro Performance of 3-D Bioactive Glass Scaffolds," *Proc. 7<sup>th</sup> World Biomaterial Congress*, Sydney, Australia, May 17-21, 2004.
- [6] C.C. Ko, W.H. Douglas, T.M. Chu, M.C. Chang, R.A. Narayanan, and W.S. Hu, "Forming 3D Scaffold of Hydroxyapatite-Gelatin Nano-Composite Using Mechanical Method and Selective Solid Etching Method," *Proc. 7<sup>th</sup> World Biomaterial Congress*, Sydney, Australia, May 17-21, 2004.
- [7] S.J. Hollister, C.L. Flanagan, C.Y. Lin, E. Saito, R.M. Schek, J.M. Taboas, T.M. Chu, R. Muller, G.H. Van Lenthe, S.E. Feinberg, and P.H. Krebsbach, "Experimental Evaluation of Scaffold/Biofactor Constructs for Bone Tissue Engineering," *Proc. Intl. Conf. on Advanced Technology in Experimental Mechanics 2003*, Nagoya, Japan, September 10-12, 2003.
- [8] A.B. Diggs, S.J. Hollister, T.G. Chu, "Fabrication and Characterization of 3-D Biphasic Ceramic Scaffolds Composed of Hydroxyapatite and b-Tricalcium Phosphate," Annual Meeting of the Society for Biomaterials, Reno, NV, April 30-May 3, 2003.
- [9] L. Jongpaiboonkit, T.G. Chu, J. W. Halloran, "Characterization and Rheology Behavior of DCPD Cement Slips for Casting Complex Scaffold," Annual Meeting of the Society for Biomaterials, Reno, NV, April 30-May 3, 2003.
- [10] T.G. Chu, C.L. Flanagan, S.J. Hollister, S.E. Feinberg, J.P. Fisher, A.G. Mikos, "The Mechanical and In Vivo Performance of 3-D Poly(Propylene Fumarate)/Tricalcium

Phosphate Scaffolds,” Annual Meeting of the Society for Biomaterials, Reno, NV, April 30-May 3, 2003.