Kent-Warwick-Imperial-University College Sol-Gel Project Meeting

Friday 20th January 2012

Minutes

Agenda item	Outcome
1. Welcome and	Bob Newport, Jonathan Knowles, Julian Jones, Mark Smith, John Hanna,
attendance	Esther Valliant, Oliver Mahony, Jodie Smith, Jamie Christie, Louise Connell,
	Nilay Lakhkar, Farzad Foroutan, Scott King, Frederick Romer, Anthony
	Macon, Gavin Mountjoy, Richard Martin, Gowsh Poologasundarampillai,
	Jahangir Malik.
2. Apologies	Daming Wang, Antonio Tilocca, Azadeh Kiani
3. Minutes	There were no comments on the minutes of the 14 th October 2011 meeting which were accepted as an accurate record.
4. Progress and Science	
4.1 Imperial	Louise: Chitosan-silica functionalization. Then did ¹ H NMR. Cant see
-	chitosan. At pH2, forms PEO, diol and dioxane. Also did at pH6.
	Oli: Looking at reaction of GPTMS and gelatin. ¹³ C of gelatin. No evidence
	of gelatin in the spectra. Has also carried out ¹ H NMR.
	Esther: γ-PGA sol-gel hybrids. PhD submission.
	Anthony: TMSPMA polymer. Polymerise in THF and TEOS-hydrolysed to
4.0.14	give sol.
4.2 Warwick	No presentations this month
4.3 Kent	Jodie: Currently looking at some calcium phosphates and also fitting to neutron data to look at aluminium.
4.4 UCL-EDI	Nilay: HT-XRD and DTA plots. Also pursuing XANES experiment with
4.4 OCL-EDI	Richard and Bob. Planning bioreactor work
	Farzad: Synthesis of binary and ternary glasses. Problem with evaporation
	of solvent before gel forms. Suggest change solvent
5. Publications update	Please send to Jonathan the DOIs of papers to link from the website
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5.1 Imperial	
5.2 Kent	
5.3 UCL	A. Kiani, N. Lakhkar, M.E. Smith, J.V. Hanna, R.J. Newport, D.M. Pickup and J.C. Knowles (2012) "Structure of Titanium-doped Bioactive Phosphate Glasses" Philosophical Transactions of the Royal Society, Part A, Vol.360, No.1962, p1352-1375.
	A. Kiani, J.V. Hanna, S.P. King, G.J. Rees, M.E. Smith, N. Roohpour and J.C. Knowles (2012) "Structural characterization and physical properties of P2O5-CaO-Na2O-TiO2 glasses by FTIR, Raman and solid state MAS NMR" Acta Biomaterialia, Vol.8, No.1, p332-339.
	D.M. Pickup, R.J. Newport and J.C. Knowles (2012) "Sol-Gel Phosphate-based Glass for Drug Delivery Applications" Journal of Biomaterials Applications, Vol.26, No.5, p613-622.
5.4 Warwick	
6. Conference update	WBC China

	JRJ and JCK keynote lectures
	Oli and Daming, Oral presentations
	Nilay, Esther and Louise, posters
	Imaging talk
	American Cermaics Society Glass and Optical Division
	Gavin, talk
	JRJ organising a session
	ACerS September 2012 launched a Biomaterials meeting in N. Carolina
7. Central Facilities	Put in application for XANES on Ti.
8. Grants	EU Fellowship. UCL, Kent, Warwick. 1st round announced June
	EPSRC Critical mass grant. UCL, Kent, Warwick and QMUL
	JRJ and RJN: progressing ideas with LLH.
8. AOB .	