SCHEDULE – CAPS 4 workshop – Lunder Conservation Center, April 30 – May 3, 2013

Approx. times	TUESDAY (30th April)	WEDNESDAY (1st May)	THURSDAY (2nd May)	FRIDAY (3rd May)
9.00 – 10.30	**Introduction to CAPS4 (TL)** • recap of CAPS LA, NYC, London • what we aim to achieve **Acrylic paint basics (TL)** • history and use • basic chemistry • behaviour and properties • aging	**Recent research into cleaning:** **Aqueous cleaning of acrylic paints (BAO)** • potential changes to optical, chemical and physical properties of acrylic paint films • bulk vs surface properties • swelling and extracted materials • new surfactants and microemulsions • case studies	**Recap from days 1 and 2 (BAO and RW)** • questions and observations **Practical application (BAO, CS, RCW)** • testing and comparison of all cleaning systems • test paint films • any paintings provided	**Practical session: (RCW, BAO, CS, TL)** • further recap, as needed • additional testing • making up test solutions to take back to studios
Break	**10:30 – 11:00**	**10:30 – 11:00**	**10:30 – 11:00**	**10:30 – 11:00**
11.00 – 12.30	**Acrylic paint basics (cont) (TL, BAO?)** • effects of cleaning treatments • practical and ethical issues • overview of potential cleaning systems **Group discussion (TL)** • participants' experiences • current cleaning issues and concerns	**Practical session (BAO)** • measurement of surface pH / conductivity • simple cleaning solutions • introduction to Dow surfactants and microemulsions	**Practical application (BAO, CS, RCW)** • testing and comparison of all cleaning systems (cont'd) • test paint films • any paintings provided **Recap on new products (RCW, BAO, CS)** • tips, likes/dislikes etc • feedback	**Group discussion (TL):** • recap on workshop • what works; what doesn't; • general observations **Wrap up** • general conclusions and insights • future directions and priorities
Lunch	**12.30 – 1.30**	**12.30 – 1.30**	**12.30 – 1.30**	
1.30 – 3.00	**Chemistry of Liquid Cleaning (CS)** • water and aqueous systems • modifying pH and conductivity • chelating agents and surfactants • gelling agents • organic solvents • silicone solvents • emulsions	**Recent research into cleaning:** **Control of swelling (RCW)** • effects of pH / conductivity on paints • non-polar approaches • silicone solvents • Pemulen / Velvesil • formulating microemulsions	**Modular Cleaning program (CS)** • applying the MCP to acrylics **Practical application** • testing and comparison of all cleaning systems (cont'd)	**KEY:** **BAO= Bronwyn Ormsby** **CS = Chris Stavroudis** **RCW = Richard Wolbers** **TL = Tom Learner** **Lecture** **Discussion in lecture room** **Practical session** **Discussion in studio**
Break	**3:00 – 3:30**	**3:00 – 3:30**	**3:00 – 3:30**	
3.30 – 5.00	**Practical session: (CS, BAO)** • appraisal of paint surfaces • use of pH / conductivity meters • preparing solutions of given .pH and conductivity • solvent cleaning • silicone solvents	**Practical session (RCW)** • effects of pH and conductivity on paint films • new microemulsions • controlling swelling • paints with high sensitivity to water	**Practical application (cont'd)** • testing and comparison of all cleaning systems (cont'd)	
5.00 – 5.30 **EVENING**	**Discussion** **Welcome Reception**	**Discussion** **Public Lecture at Lunder**	**Discussion**	