

## SCHEDULE – CAPS8 workshop – Hamburger Kunsthalle, Hamburg, Germany, July 18-21, 2017

Approx. times	TUESDAY (18 July)	WEDNESDAY (19 July)	THURSDAY (20 July)	FRIDAY (21 July)
9.00 – 10.30	<b>Introduction to CAPS and acrylic paint basics (TL)</b> <ul style="list-style-type: none"> <li>• broad aims of the workshop</li> <li>• Modern Paints project</li> <li>• recap / outcomes of previous CAPS's</li> <li>• history and use</li> <li>• basic chemistry and properties</li> <li>• conservation issues</li> <li>• approaches to cleaning</li> </ul>	<b>Wet Cleaning: aqueous systems and non-polar organic solvent systems (CS)</b> <ul style="list-style-type: none"> <li>• water and aqueous systems</li> <li>• modifying pH and conductivity</li> <li>• chelating agents and surfactants</li> <li>• MCP</li> <li>• mineral spirit solvents</li> <li>• silicone solvents</li> </ul>	<b>Gelling/emulsifying aqueous systems (in studio) – CS</b> <ul style="list-style-type: none"> <li>• agar; xanthan, other emulsifiers</li> <li>• demos and modifications</li> </ul> <b>Practical session #5 (CS + BAO):</b> <ul style="list-style-type: none"> <li>• working with gelling/emulsifying aqueous systems</li> </ul>	<b>Practical / Recap session: (BAO/CS/TL)</b> <ul style="list-style-type: none"> <li>• further recap, as needed</li> <li>• additional practical testing</li> </ul>
Break				
11.00 – 12.30	<b>Overview of research into cleaning of acrylic paints (BAO)</b> <ul style="list-style-type: none"> <li>• optical, chemical and physical properties of acrylic paint films</li> <li>• bulk vs. surface properties</li> <li>• swelling and extracted materials</li> <li>• effects of pH / conductivity on paints</li> <li>• migrated surfactants</li> <li>• ethical considerations</li> <li>• emerging research directions</li> </ul>	<b>Practical session #3 (BAO + CS)</b> <b>Wet cleaning systems</b> <ul style="list-style-type: none"> <li>• samples and preparation</li> <li>• cleaning with simple aqueous solutions</li> <li>• effects of pH and conductivity</li> <li>• mineral spirit / silicone solvents</li> <li>• controlling swelling, pigment pick-up</li> </ul>	<b>Gelling/emulsifying non-polar systems lecture (in studio) – CS</b> <ul style="list-style-type: none"> <li>• Velviesil Plus, KSG 350z</li> <li>• demos and modifications</li> </ul> <b>Practical session #6 (CS + BAO)</b> <ul style="list-style-type: none"> <li>• working with gelling/emulsifying non-polar solvent systems</li> </ul>	<b>Group discussion &amp; wrap up (BAO/CS/TL):</b> <ul style="list-style-type: none"> <li>• general observations</li> <li>• general conclusions and insights</li> <li>• perspectives and approaches</li> <li>• future directions and priorities</li> <li>• surveys etc</li> </ul>
Lunch 12.30 – 1.30				
1.30 – 3.00	<b>Practical session #1 (BAO + CS)</b> <b>General introduction to acrylic paint properties</b> <ul style="list-style-type: none"> <li>• assessing the properties of acrylic paint films</li> <li>• swelling trends</li> <li>• effects of water + non-polar solvents</li> <li>• calibrating pH meters</li> </ul>	<b>Cleaning with microemulsions (BAO + CS)</b> <ul style="list-style-type: none"> <li>• chemistry</li> <li>• mineral spirit ME systems</li> <li>• silicone solvent ME systems</li> <li>• phase diagrams</li> <li>• modifying/ mixing</li> <li>• research into effects on paint films</li> <li>• surface changes; residues</li> </ul>	<b>Practical session (BAO + CS):</b> <ul style="list-style-type: none"> <li>• preparing microemulsions</li> <li>• preparing MCP waters</li> <li>• testing all systems</li> </ul>	<b>KEY:</b> <b>BAO= Bronwyn Ormsby</b> <b>CS = Chris Stavroudis</b> <b>TL = Tom Learner</b>
Break				
3.30 – 5.00	<b>Practical session #2 (BAO + CS):</b> <b>Controlling the Aqueous Environment</b> <ul style="list-style-type: none"> <li>• calibrating conductivity meters</li> <li>• preparing adjusted 6-6 water</li> <li>• demonstration of conductivity and pH tests on paint films</li> <li>• revisit swelling tests</li> </ul>	<b>Practical session #4 (BAO + CS):</b> <b>Using and modifying microemulsions</b> <ul style="list-style-type: none"> <li>• cleaning activity</li> <li>• modifying /mixing</li> <li>• working with phase diagrams</li> </ul>	<b>Practical session (BAO + CS):</b> <ul style="list-style-type: none"> <li>• application methods - working through barriers, tissue, brushes etc, foam swabs</li> <li>• testing all systems</li> <li>• other issues, as needed</li> </ul>	<div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; background-color: white; margin-right: 5px;"></div> <span>Lecture</span> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; background-color: #d9d9d9; margin-right: 5px;"></div> <span>Breaks</span> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; background-color: #ffff00; margin-right: 5px;"></div> <span>Practical session</span> </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 20px; border: 1px solid black; background-color: #ffe6e6; margin-right: 5px;"></div> <span>Discussion in studio</span> </div> </div>
5.00 – 5.30	Discussion	Discussion	Discussion	
7.30 – 10.30		Reception (boat tour Hamburg harbor)	7 pm - Exhibition opening: Art & Alphabet (optional)	

