COST 526

"Automatic Process Optimisation in Materials Technology" (APOMAT)

Title of Proposal: Optimisation of properties and dimensional stability of composites by controlled fibre placement

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Work Packages		Co-worker months		2003												2004												2005									
			11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10
WP 1	**Model development**	**16**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**									**X**	**X**												
WP 1.1	Main stress directions	3.5	X	X	X																				X	X												
WP 1.2	Stiffness	3.5				X	X	X																	X	X												
WP 1.3	Strength	4.5							X	X	X	X													X	X												
WP 1.4	Dimensional stability	4.5											X	X	X	X									X	X												
WP 2	**Processing conditions**	**2**															**X**	**X**																				
WP 2.1	Tow placement conditions	1															X																					
WP 2.2	Moulding conditions	1																X																				
WP 3	**Validation of models**	**6**																	**X**	**X**	**X**	**X**	**X**	**X**														
WP 3.1	Processing of parts	2																	X	X																		
WP 3.2	Mechanical testing	2																			X	X																
WP 3.3	Experimental analysis of dimensional stability	2																					X	X														
WP 4	**Optimisation**	**12**																									**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**
WP 4.1	Potential mechanical properties	2																									X	X										
WP 4.2	Potential cost and weight	2																											X	X								
WP 4.3	Limiting factors	1																													X							
WP 4.4	Possible requirements	1																														X						
WP 4.5	Performance / cost optimisation	2.5																															X	X	X	X	X	X
WP 4.6	Performance / weight optimisation	2.5																															X	X	X	X	X	X
WP 4.7	Selection tools and maps	1																															X	X	X	X	X	X
WP 5	**Documentation of results**	-	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**