AiSC 2004-2005 Judging Criteria (Finalists)

Evaluation Criterion		How to Score (0 to 10 points)	
	oblem Statement (Weight 15%)	0 – problem not defined	
	Was a scientific or mathematical problem clearly defined?	5 – problem clearly defined, but lacks background or	
	Was the problem clearly thought out and well researched?	simplification or is not complex	
	Was appropriate background information presented to understand	10 – complex problem clearly defined with appropriate	
	the context of the problem?	background and simplification	
	Is the proposed solution clever and well thought out?		
	Is it a complex problem or could it be solved on a calculator or with		
	off-the-shelf applications?		
	Was the problem appropriately simplified?		
Mathematical/Computational Model (Weight 20%)		0 – no model	
	Is the mathematical model accurate? Is the model correctly applied	5 – basic understanding of model, but unable to answer	
	to the problem and its solution? Does the team understand the	questions; only one model	
	model, its equations, and variables?	10 – thorough understanding of both models	
	Is the computational approach appropriate for the project? Are the		
	assumptions/limitations of the model documented? Does the model		
	require multiple iterations or samples to identify an optimum		
	solution or range of solutions?		
Co	de (Weight 10%)	0 – none	
	Is the code original or borrowed? (Note: no penalty for using	5 – clean, documented code	
	borrowed code.)	10 – clean, documented code with extras	
	If the code was borrowed: Is the originator acknowledged? Does the		
	team understand the borrowed code? Were any modifications made?		
	Why?		
	Extra points for: original code or combination of original code with		
	borrowed code; real-time demo; graphical display of results; parallel		
	computing; multiple languages; elegance.		
Res	sults & Conclusions (Weight 15%)	0 – no results or conclusions	
	Are the results reasonable and verifiable?	5 – results, but conclusions are incomplete or illogical	
	Were logical conclusions drawn from the results?	10 – reasonable results with logical conclusions that	
	Do the conclusions relate to the stated problem?	relate to the stated problem	
Pre	esentation (Weight 10%)	0 – presentation does not support the project, is	
	Are the project's goals, objectives, and expected and actual results	incomplete, or is not visually pleasing	
	clearly articulated?	5 – a good presentation with some minor problems	
	Is the presentation professional? Is the layout logical and well	10 – a professional presentation	
	organized? Was there good contrast between text and background?		
	Were the slides too busy? Is the presentation free of spelling and		
	grammatical errors? Were questions handled gracefully?		
Tea	nmwork (Weight 10%)	0 – a dysfunctional team	
	Do all members of the team understand the problem and	5 – at least 50% of team participated or only one	
	conclusions?	participant	
	Was the work divided among the team members to take advantage	10 – 100% of team participated, team dynamics were	
	of each member's skills? (Note: not all members need to contribute	excellent	
	equally in all phases of the project.)		
	Did the team consider differences of opinion and come to an amiable		
	solution?		
	egrity (Weight 10%)	0 – evidence of plagiarism	
	Was the work original (i.e., not plagiarized)?	5 – no plagiarism, but attribution not complete	
	Were references cited and proper attribution given?	10 – no plagiarism, complete and accurate attribution,	
		complete and proper citing of references	
	vel of Effort (Weight 10%)	0 – less than a full year's effort	
	Was significant research performed? Was at least one print source	5 – a full year's effort, but research was lacking	
	used? In this a first year project? We a full year of yearly done?	10 – a full year's effort with significant research and at	
	Is this a first year project? Was a full year of work done?	least one print source	
	Is this a continuation of a previous year's work? Was the previous		
	work acknowledged and compared to the new work? Was the new		
	work a significant extension or merely a refinement of the previous		
	work?		

AiSC 2004-2005 Project Evaluation (Finalists)

Team #:	Judge:	
Comments		Score (0 to 10)
Problem Statement (Weight 15%)		(0.10.10)
Mathematical/Computational Mod	lel (Weight 20%)	
-		
Code (Weight 10%)		
, ,		
Results & Conclusions (Weight 15	%)	
Presentation (Weight 10%)		
Teamwork (Weight 100/)		
Teamwork (Weight 10%)		
Integrity (Weight 10%)		
Level of Effort (Weight 10%)		

Note: A copy of the completed form will be provided to each team.