Supercomputing Challenge Judging Criteria (Expo-Poster Session)

Evaluation Criterion		How to Score (0 to 10 points)
Pro	oblem Statement (Weight 15%)	0 – problem not defined
	Was a scientific or mathematical problem clearly defined?	1 – vaguely defined problem
	Was the problem clearly thought out and well researched?	3 – problem not clearly defined AND
	Was appropriate background information presented to understand the context of the	background information lacking
	problem?	5 problem not clearly defined OR
	Is the proposed solution clever and well thought out?	background information lacking
	Is it a complex problem or could it be solved on a calculator or with off-the-shelf	8 – problem clearly defined AND
	applications?	background information is appropriate
	Was the problem appropriately simplified?	and complete
		10 – complex problem clearly defined
		with appropriate and complete
		background information
Co	mputational, Mathematical and/or Agent-Based Model (Weight 40%)	0 – no model
	Is the mathematical model accurate (or a reasonable approximation)?	1 – basic model, but team doesn't
	Is an algorithmic model reasonable (agent-based problem and/or mathematically	understand it
	intractable problem)?	3 – basic model, team understands it,
	Is the model correctly applied to the problem and its solution?	but cannot answer questions about it
	Does the team understand the model, its equations, and variables?	5 – basic understanding of model, but
	Is the computational model appropriate for the project? Are the	unable to answer questions about it
	assumptions/limitations of the model documented? Does the model require multiple	8 – basic understanding of model; some
	iterations or samples to identify an optimum solution or range of solutions?	understanding of equations, variables,
	Is the agent-based model a reasonable representation of the problem? Does the	etc.
	model correspond to a well-known mathematical model? If so, was the	10 – complex model thoroughly
	mathematical model used to validate the agent-based model? Does the model	understood
	provide insight into the problem? Can anything be learned from the model? Does	
	the team understand the agent's states and behaviors, and the role of the	
	environment? In particular, does the team understand how the agents affect each	
	other and/or modify their environment?	
Co	de (Weight 10%)	0 – none
	Was code shown?	1 – code does not execute
	Was a real-time demo shown?	3 – code is incomplete OR is a simple
		calculation that does not require a
		computer
		5 – code is not original OR is
		undocumented
		8 – code is original AND well
		documented
		10 – original, documented code with
		real-time demo
Res	sults & Conclusions (Weight 15%)	0 – no results or conclusions
	Are the results reasonable and verifiable?	5 – results, but conclusions are
	Were logical conclusions drawn from the results?	incomplete or illogical
	Do the conclusions relate to the stated problem?	10 – reasonable results with logical
	- -	conclusions that relate to the stated
		problem
Dis	play and Presentation (Weight 10%)	0 – none
	Was the display logical and well organized?	3 – display does not support the
	Were the presenters knowledgeable?	project, is incomplete, or is not visually
	Were questions handled gracefully?	pleasing
	•	5 - a good display with some problems
		10 – a professional quality display
Int	egrity (Weight 10%)	0 – evidence of plagiarism
	Was the work original (i.e., not plagiarized)?	5 – no plagiarism, but attribution not
	Were references cited and proper attribution given?	complete
	Were graphics, figures, and equations cited and proper attribution given?	10 – no plagiarism, complete and
1		accurate attribution, complete and
		proper citing of references
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Supercomputing Challenge Project Evaluation (Expo-Poster Session)

Team #:	Judge:	
Comments		Score (0 to 10)
Problem Statement (Weight 15	%)	(* 33 _ 3)
Computational, Mathematical	and/or Agent-Based Model (Weight 40%)	
Code (Weight 10%)		
Results & Conclusions (Weight	15%)	
Display & Presentation (Weigh	t 10%)	
Integrity (Weight 10%)		
magney (weight 10/0)		

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