Supercomputing Challenge Judging Criteria (Expo-Poster Session)

Evaluation Criterion		How to Score (0 to 10 points)
Pro	Was a scientific or mathematical problem clearly defined? Was the problem clearly thought out and well researched? Was appropriate background information presented to understand the context of the problem? 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?	0 – problem not defined 1 – vaguely defined problem 3 – problem not clearly defined AND background information lacking 5 problem not clearly defined OR background information lacking 8 – problem clearly defined AND 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 25%)	0 – no model
0	Is the mathematical model accurate (or a reasonable approximation)? Is an algorithmic model reasonable (agent-based problem and/or mathematically intractable problem)?	1 – basic model, but team doesn't understand it 3 – basic model, team understands it,
	Is the model correctly applied to the problem and its solution? Does the team understand the model, its equations, and variables?	but cannot answer questions about it 5 – basic understanding of model, but
	Is the computational model 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?	unable to answer questions about it 8 – basic understanding of model; some understanding of equations, variables,
	Is the agent-based model a reasonable representation of the problem? Does the model correspond to a well-known mathematical model? If so, was the mathematical model used to validate the agent-based model? Does the model 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?	etc. 10 – complex model thoroughly understood
Code (Weight 25%)		0 – none
	Was code shown? Was a real-time demo shown? Is the code commented? What variables are they using? Are they able to explain why they are using these variables?	1 – code does not execute 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
Re	sults & Conclusions (Weight 15%) Are the results reasonable and verifiable?	0 – no results or conclusions 5 – results, but conclusions are
0 0	Were logical conclusions drawn from the results? Do the conclusions relate to the stated problem?	incomplete or illogical 10 – reasonable results with logical conclusions that relate to the stated problem
	splay and Presentation (Weight 10%)	0 – none
	Was the display logical and well organized?	3 – display does not support the
	Were the presenters knowledgeable? Were questions handled gracefully?	project, is incomplete, or is not visually pleasing 5 – a good display with some problems 10 – a professional quality display
	egrity (Weight 10%)	0 – evidence of plagiarism
	Was the work original (i.e., not plagiarized)? Were references cited and proper attribution given? Were graphics, figures, and equations cited and proper attribution given?	5 – no plagiarism, but attribution not complete 10 – no plagiarism, complete and accurate attribution, complete and proper citing of references

Supercomputing Challenge Project Evaluation (Expo-Poster Session)

Team #:	Judge:	
Comments		Score (0 to 10)
Problem Statement (Weight 1:	5%)	(0.00.10)
Computational, Mathematical	and/or Agent-Based Model (Weight 40%)	
Code (Weight 10%)		
Results & Conclusions (Weigh	ıt 15%)	
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Display & Presentation (Weig	iii 10%)	
Integrity (Weight 10%)		

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