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
	Is it a complex problem or could it be solved on a calculator or with off-the-shelf	background information lacking
_	applications (Excel)?	5 problem not clearly defined OR
	applications (Exect).	background information lacking
		8 – problem clearly defined AND
		background information is appropriate
		and complete
		10 – complex problem clearly defined
		with appropriate and complete
		background information
Ma	thematical/Algorithmic Model (Weight 25%)	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
_	2 oos tile teim understand tile model, na equations, und variables	unable to answer questions about it
		8 – basic understanding of model; some
		understanding of equations, variables,
		- 1
		etc.
		10 – complex model thoroughly
~		understood
Co	mputational and/or Agent-Based Model (Weight 25%)	0 – no model
	Is the computational model appropriate for the project? Are the	1 – basic model, but team doesn't
	assumptions/limitations of the model documented? Does the model require multiple	understand it
	iterations or samples to identify an optimum solution or range of solutions?	3 – basic model, team understands it,
	Is the agent-based model a reasonable representation of the problem? Does the	but cannot answer questions about it
	model correspond to a well-known mathematical model? If so, was the	5 – basic understanding of model, but
	mathematical model used to validate the agent-based model? Does the model	unable to answer questions about it
	provide insight into the problem? Can anything be learned from the model? Does	8 – basic understanding of model; some
	the team understand the agent's states and behaviors, and the role of the	understanding of algorithm and
	environment? In particular, does the team understand how the agents affect each	programming syntax
	other and/or modify their environment?	10 – complex model thoroughly
	other and/or modify their environment:	understood
Da	sults & Conclusions (Weight 15%)	0 – no results or conclusions
		5 – results, but conclusions are
	Are the results reasonable and verifiable?	
	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
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
D' 1 (W' 14100/)		real-time demo
Display (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

Supercomputing Challenge Project Evaluation (Expo-Poster Session)

Team #:	Judge:	
Comments		Score (0 to 10)
Problem Statement (Weight 15%))	(0 to 10)
Mathematical/Algorithmic Mode	l (Weight 25%)	
o de la companya de		
Computational and/or Agent-Bas	ed Model (Weight 25%)	
Computational and/of rigent-bas	ed Model (Weight 25 /6)	
Danish O Caralasian (W. dalat	20/	
Results & Conclusions (Weight 1	5%)	
Code (Weight 10%)		
Display (Weight 10%)	_	

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