

Meeting Minutes

By:	James Blount, AIA, LEED AP	Date:	4/11/08
Meeting Date:	3/27/08	Project Name:	SUNY University at Buffalo School of Engineering & Applied Sciences
Meeting Time:	8:00AM – 2:30PM	Project No.:	SUCF Proj.No. 30A56 P+W Proj.No. 155051.000
Meeting Location:	UB Commons Room #9	Attendees:	Ram Sridhar <i>Shambhu Upadhyaya</i> <i>Chunming Qiao</i> <i>Murat Demirbas</i> <i>Chang Wen Chen</i> <i>Chris Miller</i> Vipin Chaudhary <i>Russ Miller</i> <i>Rohini Srihari</i> <i>Stu Shapiro</i> <i>Aidong Zhang</i> <i>Mike Buckley</i> <i>Carl Alphonse</i> <i>Helene Kershner</i> Venu Govinadaraju <i>Vipin Chaudhary</i> <i>Chang Wen Chen</i> <i>Jason Corso</i> <i>Stu Shapiro</i> <i>Bharat Jayaraman</i> <i>Mike Buckley</i> <i>Chris Miller</i> Rhonda Grapes, UB <i>Peter Rubin, SUCF</i> <i>Ryan Standish, UB</i> <i>Dan Caron, BR+A</i> <i>Jim Blount, P+W</i>
Next Meeting Date:	April 24, 2008		

Agenda

DM Phase Computer Science Engineering Workshop I
(P+W/BR+A/SUCF/UB Facilities/EE Faculty)

- 8-8:30 - CSE VSLI Design & Test Lab Workshop I
- 8:45-9:15 - CSE Optical/Wireless Networking Workshop I
- 9:30-10 - CSE Wireless Network Security Research Lab.Workshop I
- 10-11 - CSE Surgery Tool set-up Lab Workshop I
- 11-12 - CSE - Class/Lab Workshop I
- 1-2:30 - CSE Smart Room Workshop

Meeting Minutes

Items in **bold** are new, items in *italics* are revised.

Item No.	Description	Responsibility / due date	Status
	CSE / Research, Lab/Class & Smart Room Workshop I		
080326.001	<p>CSE VLSI & Test Lab (Research / Similar to Furnas 215 – Recently moved to Baldy 2)</p> <p>Research space: Co-located within single environment – Design workstations, Testing stations and collaborative meeting space.</p> <p>Design workstations – Computer simulations Testing stations – Chips to equipment / Driven by software. Workbench space for testing equipment. Meeting space with tables and marker boards</p> <p>16-20 students per lab 8-10 Design work stations 2 Students per work station Work station w/wire management: 30" w. x 72" l. w/upper shelves for instrumentation/equipment and wire management:</p> <p>1 Collaboration area w/marker board 1 T/A station with computer table 1 Digital projector 1 Retracting projection screen</p> <p>Services: Wireless data system 2 Power duplex outlet per bench/table 1 Power duplex outlets for TA station 1 Data hardwire connection per student 1 Data hardwire connections for TA station</p> <p>Summary: This space should be planned to function as a design simulation and testing research (Chips to equipment) environment. The space could have a small area dedicated for group collaboration and sharing of testing data.</p> <p>Open environment</p> <p>Student office space is located elsewhere in the building.</p> <p>Perkins+Will to provide the user group the following prior to next work session;</p> <p>Room layout options VLSI (Lab/Class type III) Room data sheets (By Architect/reviewed by end user) Equipment data sheets (For execution by user group)</p>	<p>P+W - 4/16/08 P+W - 4/16/08 UB - 4/30/08</p>	<p>Complete WIP Open</p>

Item No.	Description	Responsibility / due date	Status
	CSE / Research, Lab/Class & Smart Room Workshop I		
080326.002	<p>CSE Optical & Wireless Mobile/Networking (Research / Mobile sensors area similar to Furnas 210)</p> <p>Research activity: NSF Grant – GENI Project - National Footprint - Future Generation Network - Remote experiments - Fiber cables to exterior (Multiple fibers) - Single mode - Multi-mode within room (4-6 modes)</p> <p>Integrated research spaces within OWMN: Wireless testing (Table-top test bed) - Static sensor network - 300 nsf</p> <p>Mobile sensors (Robots) - Optical mobile sensors - 300 nsf</p> <p>Multimedia/Imaging (Project screening) - Camera's and wireless transceivers on rails - High definition project screening - 300 nsf</p> <p>32 workstation/desks (Needs clarification / Where?) 1 Digital projector 1 Retracting projection screen 2 Marker boards (1 each side of projection screen)</p> <p>Services: Wireless data system Power raceway full perimeter Data raceway full perimeter See room data sheet for full services</p> <p>Summary: This space should be planned with a significant amount of flexibility for future adaptability. Preference is for a long laboratory to assist in simulation of mobile objects. Possibly divided space (Needs clarification) Concerned with RF shielding (Needs clarification) Close proximity to server room preferred.</p> <p>Perkins+Will to provide the user group the following prior to next work session;</p> <p>Room layout options OWMN (Lab/Class type III) Room data sheets (By Architect/reviewed by end user) Equipment data sheets (For execution by end user)</p>	<p>P+W - 4/16/08 P+W - 4/16/08 UB - 4/30/08</p>	<p>Complete WIP Open</p>

Item No.	Description	Responsibility / due date	Status
	CSE / Research, Lab/Class & Smart Room Workshop I		
080326.003	<p>CSE Wireless Network Security Research Lab (Research / Similar to Bell 338)</p> <p>Research activity: Wireless research / Embedded wireless security</p> <p>Research space: Large open space with 3 distinct areas of research activity;</p> <p>Desktop computer research -</p> <p>Laptop research – Addhoc</p> <ul style="list-style-type: none"> - Routers / Intrusion detection - Network gear / Equipment <p>Sensors – Open experimental space</p> <ul style="list-style-type: none"> - Deploying sensor technology - Multi-hop network (3-4 separated by 10’ min.) - Concerned with interference (Shielding) - Camera/wireless transceiver on ceiling rail <p>Meeting/Conferencing area</p> <ul style="list-style-type: none"> - Conference calls for 6 people <p>30 students per lab/class (Needs clarification) 2 students per table with two computers 30” w. x 72” l. 12 students at tables in center of room Electrical connections at table 6 students at tables at perimeter 8 students at tables / workstations</p> <p>Services: Dedicated/Isolated wireless network See room data sheet</p> <p>Summary: This space should be planned to function as a research environment dedicated to hands-on research. The space could have a small area dedicated for group collaboration/meetings/conference calls.</p> <p>Perkins+Will to provide the user group the following prior to next work session;</p> <p>Room layout options WNSR (Lab/Class type III) Room data sheets (By Architect/reviewed by end user) Equipment data sheets (For execution by end user)</p>	<p>P+W - 4/16/08 P+W - 4/16/08 P+W - 4/30/08</p>	<p>Complete WIP Open</p>

Item No.	Description	Responsibility / due date	Status
	CSE / Research, Lab/Class & Smart Room Workshop I		
080326.004	<p>CSE Surgery Tool Set-up (Research / Similar to UB Commons 19/21)</p> <p>Research activity: Computer assisted diagnosis and surgery and accelerated computer laboratory.</p> <ul style="list-style-type: none"> - Operating room simulations - Robotic surgery <p>Research spaces Co-located within single environment – Computer workstations, Instrumentation simulations and group meeting/collaboration area.</p> <p>Requested movable partition (Needs clarification) Close proximity to server</p> <p>15 students per lab 20 work stations (Needs clarification) 1 Students per work station Work station w/wire management: 30" w. x 48" l. - <i>Could students pair-up on a 72" l workstation?</i></p> <p>1 Collaboration area w/marker board 1 Digital projector 1 Retracting projection screen 1 LCD panel</p> <p>Activated camera's for video capture on ceiling mounted Rail system.</p> <p>Services: Wireless data system See room data sheet</p> <p>Summary: This space should be planned to function as a simulation and instrument testing laboratory environment. The space could have a small area dedicated for group collaboration and sharing of testing data.</p> <p>Perkins+Will to provide the user group the following prior to next work session;</p> <p>Room layout options Surgery / Tool Set-up Room data sheets (By Architect/reviewed by end user) Equipment data sheets (For execution by user group)</p>	<p>P+W - 4/16/08 P+W - 4/16/08 UB - 4/30/08</p>	<p>Complete WIP Open</p>

Item No.	Description	Responsibility / due date	Status
	CSE / Research, Lab/Class & Smart Room Workshop I		
080326.005	<p>CSE Lab/Class Type I - Instructional (Similar to Baldy 21, Bell 216, Bell 340)</p> <p>30-50 students per lab/classroom 2 Students per computer table Computer table w/wire management: 30" w. x 72" l. (Tables need to be 72" wide for write-up space.) Rows: 36-42" (Space required for instructor access to students) 1 instructor station with computer table & lectern 1 Digital projector 1 Retracting projection screen 2 Marker boards (1 each side of projection screen) Services: Wireless data system 1 Power duplex outlet per student 2 Power duplex outlets for instructors station 1 Data hardwire connection per student 2 Data hardwire connections for instructor station</p> <p>Summary: This space needs to function purely as an instructional computer classroom with ample space between computer tables for student/instructor at each terminal.</p> <p>Perkins+Will to provide the user group the following prior to next work session;</p> <p>Room layout options Lab/Class type I Room data sheets (By Architect/reviewed by end user) Equipment data sheets (For execution by end user)</p>	<p>P+W - 4/16/08 P+W - 4/16/08 UB - 4/30/08</p>	<p>Complete WIP Open</p>

Item No.	Description	Responsibility / due date	Status
	CSE / Research, Lab/Class & Smart Room Workshop I		
080326.006	<p>CSE Smart Room</p> <p>Research / Demonstration space: Co-located within a highly flexible and adaptable Demonstration space. Demonstrating a variety of technologies within simulated environments.</p> <ul style="list-style-type: none"> - Technologies: <ul style="list-style-type: none"> - Biometrics - Virtual reality (Computer aided virtual environment /CAVE) - Sensors - Simulated environments: <ul style="list-style-type: none"> - Living rooms - Kitchens - Elderly care facilities - Hospital room - Conference room / Office - Laboratory / Classroom - Building entrance / security <p>Simulated environments are to be planned as highly visible demonstration spaces to showcase SEAS research.</p> <p>Numerous simulated environments could be on display at the same time. Some may require dismantling while others are still actively on display. The assembling and dismantling of the simulated environments should be planned to have a minimal impact upon the adjacent simulated environments and adjacent spaces.</p> <p>Services: See room data sheets</p> <p>Perkins+Will to provide the user group the following prior to next work session;</p> <p>Room layout options Smart Room Room data sheets (By Architect/reviewed by end user) Equipment data sheets (For execution by user group)</p>	<p>P+W - 4/16/08 P+W - 4/16/08 UB - 4/30/08</p>	<p>Complete WIP Open</p>

The foregoing constitutes our understanding of matters discussed and conclusions reached. Other participants are requested to review these items and advise the originator in writing of any errors or omissions.