

INTEGRATIVE SCIENCE COMPLEX - Phase 2

MEETING NOTES: Neuro/Life Science User Group

June 3, 9:30-11:00 .350 Willamette

Takahashi, S. Frey, Moses, Phillips, Guillemain, Bowerman, Tepfer

Recap core concepts/draft patterns

See separate document outlining core concepts from May 14 meeting.

Group agreed that these concepts are good starting points to refine during design.

They also discussed variations on the lab arrangement model, perhaps with larger and smaller modules, and the need in some cases to close or not build interior connections where there are environmental or acoustical reasons for separation.

MRI/imaging center, Genomics, Bio-informatics

Scott Frey outlined the needs of the Imaging Center, and some of the challenges of a new fMRI is needed to replace the current one, new one must be whole-body

- weight (30 tons)
- size (needs huge access path)
- stray magnetic fields: 5 gauss line must be protected
- protection from RFI/EMI: motors, elevators, large vehicles, etc.
- protection from vibration
- convenient parking (2-3 spaces) and public access is needed
- enormous data sets are generated in this research

These suggest a slab-on-grade, either basement or ground floor.

A place for staff to assist in data analysis would be a nucleus for interaction among researchers in these fields.

Server/Data space

It was generally agreed that there are potential advantages to creating shared space for most servers, with potential savings in support staff, etc., but there are administrative hurdles to jump to achieve this. The facility need not even be in the science complex, as long as there are big enough and fast enough data pipes to it. A separate group will be studying this, but it would be helpful for users to start to identify how many racks of servers they currently have and what their five year growth potential is.

Genomics

Patrick Phillips reviewed the issues around the Genomics miniproposal. Current genomics facilities are in very poor space, constrained by lack of appropriate server space, lack of space for support staff and collaboration. As with servers, there are economies of scale in staffing this equipment. The main thrust of providing this major facility is most appropriately held until ISC3, but there is a pressing need for an initial genomics area as part of this phase, either in new space or release space.

Informatics

As with Imaging, the “peopleware” is the key component. Co-location with similar facilities, possible proximity to Deschutes Hall, could create a culture or center for information-related inquiry. Blended, separated, and colocated models were discussed.

