

**Drafting Technology Advisory Council Meeting
October 31, 2012 4:30 pm**

Members present:

Dean Kathy Ross
Jeff Payne, SFO Airport, CAD Manager, Adjunct Faculty
Robert Scheren, AIA Architect, Dean & Professor Emeritus
Jason Hill, Fly SFO, CAD Manager
Jason Silva, Student Representative
Lilya Vorobey, Faculty

I. AGENDA

1. Introductions
2. Discussion pertaining to drafting positions/ outreach in Bay Area
3. Information regarding college funding and Lab concerns 19-110

II. Last Year's Advisory Council Meeting Summary:

Are there more or less jobs in this industry?

As long as engineering, architecture and design are needed, there are many jobs. We live in a design hotbed and yet we do not have employable people.

Who do you hire- Where do they come from?

SFO: We hire students, graduates and place them as interns to get them the necessary experience to qualify for a permanent full-time position. We also hire experienced people with industry experience.

Approximate pay for entry employees/ seasoned professionals

SFO Entry internships \$26.55/Hr. to \$41.40/Hr.

Skills that would be nice to have in addition to those required for software

Ability to work independently and collaboratively on project team
Organizational skills
Ability to manage multiple tasks
Technical and research skills
Team Player
Strong presentation skills
Design Ability
Conceptual rendering ability
Clarity of thought
Clarity of Design integrity
Hardworking, focused, dedicated and self-motivated
Excellent communication and interpersonal skills
Ability to graphically communicate two and three-dimensional concepts by hand
Proficiency in sketching, drafting and hand rendering

Recommendations for students coming in for an interview

-Digital portfolio of sketches, hand drafting, two and three-dimensional cad drawing with a resume

III. Curriculum and Community Outreach

R. Scherens stated that the AIA website *preferred software* listing for practically every job listing is AutoDesk REVIT.

L. Vorobey mentioned that we have REVIT software included in our AutoDesk bundle thus we could easily include it in our curriculum.

J. Payne discussed the value of the program as BIM software. BIM software is Building Information Management which allows one to see if design issues conflict with one another, such as electrical lines and heater ducting being in the same area. Revit also is compatible with many other programs. AutoDesk is attempting to make all of their programs compatible.

The unfortunate situation is that these programs work best on high end gaming computers with a minimum of 16mb of ram and our lab in its current state barely allows the student to finish a drawing without the computer freezing up.

Discussion:

Through the use of REVIT or other BIM software programs, maintenance workers work with architects to envision their needs such as storage or the amount of light bulbs types required to maintain a building. Thus, designing a building to house only a few different types of light fixtures, thus fewer light bulbs, would equal less storage space.

Discussion:

Current students having courses that require serious studying such as AutoCAD dwelled on the fact that a lot of students coming from high school demand immediate gratification. In addition, these students have no "hand tool use" and are not aware of 3D spatial issues that are a requirement of drafting.

We are lacking a hand drawing and sketching class. Dean Ross offered Architecture 120 which is a hand sketching class.

To consider as a requirement would mean talking to Laura Demsetz since that particular class fills quickly. Could we then add a 1 or 2 unit sketching class to the drafting curriculum.

Since we are attempting to cater the following disciplines, a drawing class in perspective and plan views would be a priority to help students understand what they are drawing in any of the drafting classes.

- Home Construction Design
- Interior Design
- Landscaping
- Civil
- Engineering
- Mechanical Design
- Industrial Design

R. Scheren asked if there is a drawing class in the art department that would benefit our students. Vorobey said that she would talk to one of the professors.

Meeting was adjourned at 5:45 pm.