General Meeting 3/14/13

1. Introducing Byron Wolf and Evan Waddell
2. Evan Waddell
   1. Silicon technology
      1. Part of research and development
   2. Anywhere from meetings to labs
      1. Efforts to killing projects or passing them on
   3. Questions?
      1. How do your experiences compare to expectations based on curriculum?
         1. Expected to design more processes and use phase diagrams.
         2. Mainly deal in new technology
         3. Economics are very important
         4. Organic chemistry one of more important classes in terms of chemistry
         5. Thermodynamics one of more improtant classes in terms of engineering
      2. Once working will I have an outside life?
         1. Dow Corning tries to limit you to a reasonable amount of work time
         2. Enjoys working a lot
      3. How many people do you work with that are from outside the US?
         1. At least half the people are from other countries
         2. Teaches you to keep in mind the varying regulations of other countries
      4. Have any of your projects been scaled up to full capital projects?
         1. Has been working on some projects that have been scaled up to a 1000 kilogram scale but were then killed
         2. Most projects die
         3. Has only had 3 projects and none of them have made it to the market
         4. Process engineers have up to 8 projects at a time
      5. Have you had to take other classes or wanted to?
         1. Would have taken more economics
         2. Would have taken polymer chemistry class other than silicon class
         3. More emphasis on reactor design
         4. Amount of math taken was sufficient
         5. Taking a class or two at local universities to bolster knowledge and learn to network with people at other companies- taking a nanotechnology class this semester
         6. Dow Corning is very supportive in continuing your education
         7. People who come in as engineers are more likely to move around in the company
      6. Did you do a co-op as an undergrad
         1. Did a summer of research on campus
         2. Did a summer internship at Dow Corning between junior and senior year
            1. Worked on fiber reactor technology- non phase dispersive phase transfer
         3. Internship opportunities for Dow Corning are challenging but you can tell if you would be a good fit
      7. Do you rely pretty heavily on pilot plant runs
         1. Personally does not rely on them. Does them and does several but is usually trying to increase validation levels across the board and the manufacturing cost hypothesis. Has to rely on both techincal and market so pilot plants are only part of it
         2. Sometimes had to make own pilot processes but other times have one already set up
         3. Green engineering class would be a good component of classes or a class on its own
            1. First quesiton downstream is about amount of waste
      8. Important skills used everyday
         1. Networking moreso than any specfic laws
            1. Ability to send a clear email and get point across
            2. Likes to meet in person- makes people feel valued
            3. Do not anger your coworkers if possible- it can make your life very difficult
         2. Make sure freshman do things that promote professional development
      9. Any engineering job is going to have simliar benefits
         1. Dow Corning has a benefit akin to a bonus program based on how safe you are and profit metric for your section
      10. To ask more senistive questions
          1. Email to [e.waddell@dowcorning.com](mailto:e.waddell@dowcorning.com)
3. Byron Wolf
   1. Been at Dow Corning for nearly 26 years
   2. Started on the science and technology side of business
      1. Also did manufacturing skill support
      2. Took a job designing a process- did not enjoy it
      3. Makes sure the products or processes are nto violating the law
      4. Works in the core products business
   3. Skills to be used on a daily basis- important ones are softer skills
      1. Managing through conflicts
      2. Making sure your point gets across
      3. Know yourself
      4. Take the Myers-Brigg
      5. Communication is huge
   4. Did not end up doing the job he thought he would when leaving school
      1. Went into first job at Dow Corning wanting to do something challenging
      2. Did not want to do front end research but instead turn ideas into a sellable form