



MNSUG Minnesota SolidWorks Users Group Meeting Notes: 11/14/2007

Our Fourth meeting of the year - Ridgedale Library in Minnetonka

Mnsug

Attendance: 35

- SW Blog: <http://blogs.solidworks.com/solidworksblog/>
- SW Podcasts: <http://blogs.solidworks.com/mediapodcasts/>
- SW Community Blog: <http://blogs.solidworks.com/swcommunity/>
- SW Express Newsletter: <http://www.solidworks.com/swexpress/pages/may06/>
- Online Forum - MNSUG Yahoo User Group <http://groups.yahoo.com/group/mnsug>
- meeting & as usual, new topic Ideas? Email: danp@solidservices.net
- design contest still on, email your SW designs to mnelson@enpathmed.com (more info below)
- **Visit our website** for info, meeting notes, job postings <http://www.solidservices.net/mnsug>
- Benefit your fellow SolidWorks users, A call for anyone who would like to put on a brief presentation at a future meeting

1:04 pm Meeting Start - Dan Podzimek

- Introductions - MNSUG leaders
- Regional Conference - 2 attended
- Full day conference - no initial interest in presenting topics
- Birthday for user group - 12 people at original meeting that took place at Dunwoody
- Last February we won user group of the year
- Anyone use 3D connexion products? A few hands raised

1:09 pm Brian Lindahl - Hole Wizard Presentation CAD Speed UP LLC Senior Engineer

- 15 standard hole wizard standards in sw2008, 15 in sw2007
- Legacy Holes have no standards database
- When using hole wizard -select face BEFORE clicking on the hole wizard icon. If you don't, then solidworks uses 3D sketches to make your hole, then editing that hole can become more difficult, and the filesize gets larger, along with rebuild times
- Rule 1: for multiple parts, create holes for the one "seed" part. Then, pattern the hole wizard feature
- Rule 2: hole wizard sketch is already a pattern - rarely need to pattern a single hole wizard feature. You can pattern points in a sketch. The position tab in hole wizard acts as a sketch if you select your face before selecting hole wizard
- "patterns of patterns" now work when calling out a hole in a drawing using the hole callout icon. This was not working in sw2006
- Swbrowser.mdb includes hole wizard data
- Tools, options, system, holewizard, toolbox, configure then disable "non used standards" (like JIS (Japanese industry standards))
- If you disable sizes, you can't create those hole sizes, but you can always use edit to create those sizes if needed
- You can copy standards, and then rename for your own customization
- Locate calloutformat.txt
- Copy and paste ANSI INCH and add new standard with new name
- Use the Machinerys Handbook for Data



- Favorites can be saved to disk
- When adding a minor holetype always make backups (swbrowser.mdb)
- Copy hexbolt table from hbolt & hbolt_SF
- Hole table consistency is important

2:10 pm Contest - 5 Orthographic Projection Models & Next Contest

- 33 entries 08/23/07 - 11/01/07 - good turnout
- Must have 5 models
- Fewest features, no imports
- Jeffrey Brown, Jonathon Osterhout had 9 features total
- Jonathon Osterhout \$300 best buy card
- Next Contest - Z Corp
- \$300 contest due 2/1/08

2:15 pm Dave Schlueter Haldeman-Homme, Inc.

- Discussed 24 bit color printer
- Roughly 1" per Hour can also do jpegs
- Also, hand held scanning

2:20 pm Break

2:45 pm Using Blocks - Mauricio Murillo MR Instruments, Inc - CAD Drafter, Designer

- Mauricio stated this was his first-ever presentation
- **Wants to go to San Diego to work and learn, and to party**
- Using Blocks - why use them?
- Create complex sketches, save time - less errors
- Mauricio showed pictures of RF Type Circuit boards (large)
- Uses much more copper than the average board
- At MR layers = configurations
- Showed video movie of using blocks that separate the main sketch, and bodies then update
- Blocks: Manage Complex Sketches, edit all instances of blocks simultaneously
- Different components are shown as different blocks, block sketches have smaller rebuild times
- Blocks can: position geometry, create features, avoid constraints, can be construction geometry to position other features, add features or materials, or extrude
- Can create a 2D Block from Drawing format
- Questions, you may contact Mauricio at mauricio@mrinstruments.com
- 2d video shows a polygon will not update with constraints
- Create polygon onto instertion point. Fully define all geometry when making blocks
- Blocks can make more than extrusions
- 3:43 pm Q & A on Blocks

3:45 pm Open Mouse - User Group Members

- Dan Showed all 5 ortho constest models with least features - the trick was using 3D sketching to create less design tree features

3:58 pm Raffle

- Most UserGroup members win a prize at the end-of-meeting raffle



Sincerely, Your MNSUG Staff

- Dan Podzimek - President danp@solidservices.net
- David LaBuda - Vice President David_LaBuda@datacard.com
- Mark Nelson - Secretary mnelson@enpathmed.com