

Equipment set-up, process, and processing for “The Rotary Evaporator”

Video: <https://youtu.be/k-OT-XRvVDI>

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- Equipment

- Canon 7D mk ii camera
- Canon 24-70 mm f2.8 and Canon 24-70 f4 for macro work
- Manfrotto MK190XP33W 3sec+MHXPRO 3W Head tripod
- several SD cards that were at least 32 GB with fast writing capability since videos were shot at the highest resolution (SDHC/SDXC UHS-I)
- make sure the computer used to do the video processing has lots of hard-drive space (budget 10 GB for every 10 minutes of video)
- Blue Yeti microphone
- Camtasia software

- Set-up

- Set the camera ISO to auto
- set aperture from f/2.8 to f/8 depending on how much focus is wanted on the subject
- Set shutter speed to 1/60
- set the white balance to reflect the fluorescent light environment (do not go "auto white balance" since it leads to colour inconsistencies)
- try to shot a couple of seconds of the environment before an action is taken and a couple of seconds after the action is done - the extra time might come in handy during the editing process.

- Process (how did you make the video itself, any main considerations)

- create a storyboard and plan out the shots
- write the script
- film the videos
- record the script audio using "Voice Recorder"
- edit videos in Camtasia
- post videos on Youtube

- Processing (how did you edit and post the video)

- edit and assemble the video clips in Camtasia
- add in the narrative audio track to match the video clips
- caption videos by adding script text to scenes (matching narrative track) (YouTube has a Closed Caption feature but I haven't had much luck with it).
- originally I had open source music with my videos but over the years there were increasing complaints about the type and/or volume of music. So now I don't include any music at all.
- I uploaded my videos to YouTube so that they can be easily shared and accessed by students (I use QR codes as well as provide the URL in my manual).