



Procter & Gamble Mascot

# Transfer of Cleaning Rig

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**PMTC Knowledge Day**

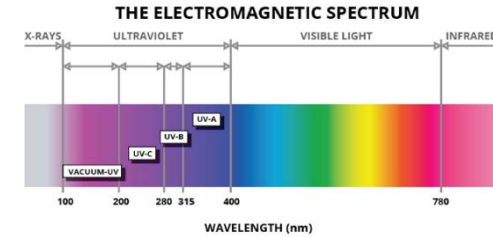
**29<sup>th</sup> August 2019**



# Rinse Recovery Studies for Cleaning Validation

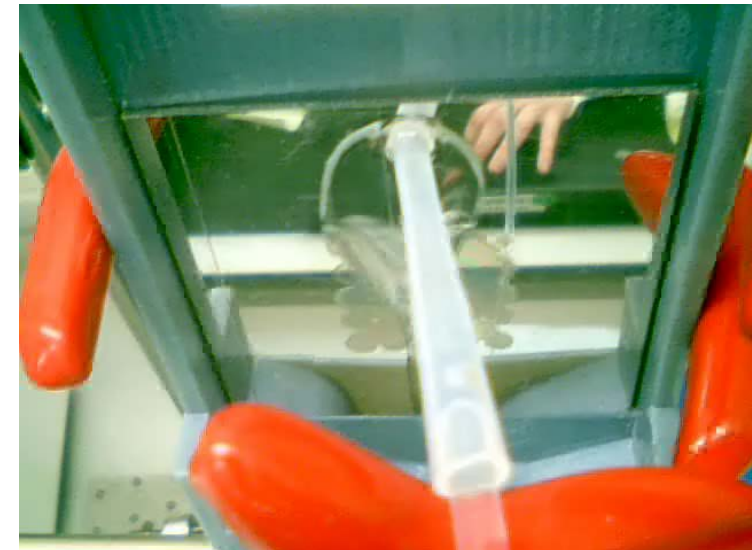
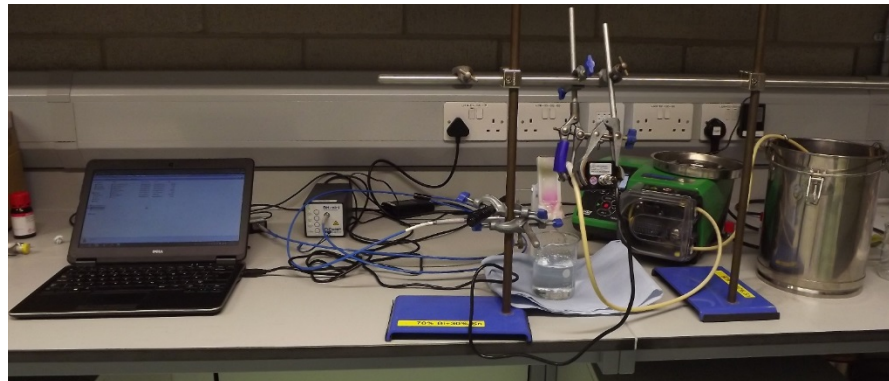
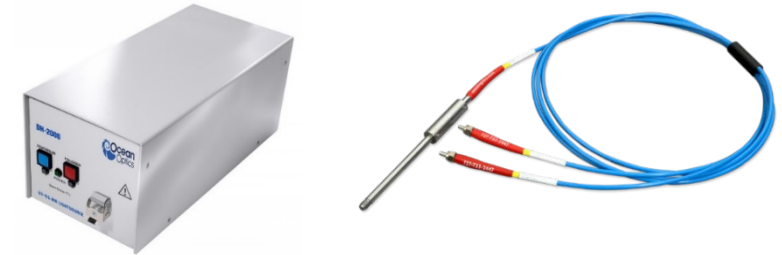
## Problem

- Rinse recovery studies take too long
- Inconsistent results especially with less experienced personnel
- Too many resources



## Approach

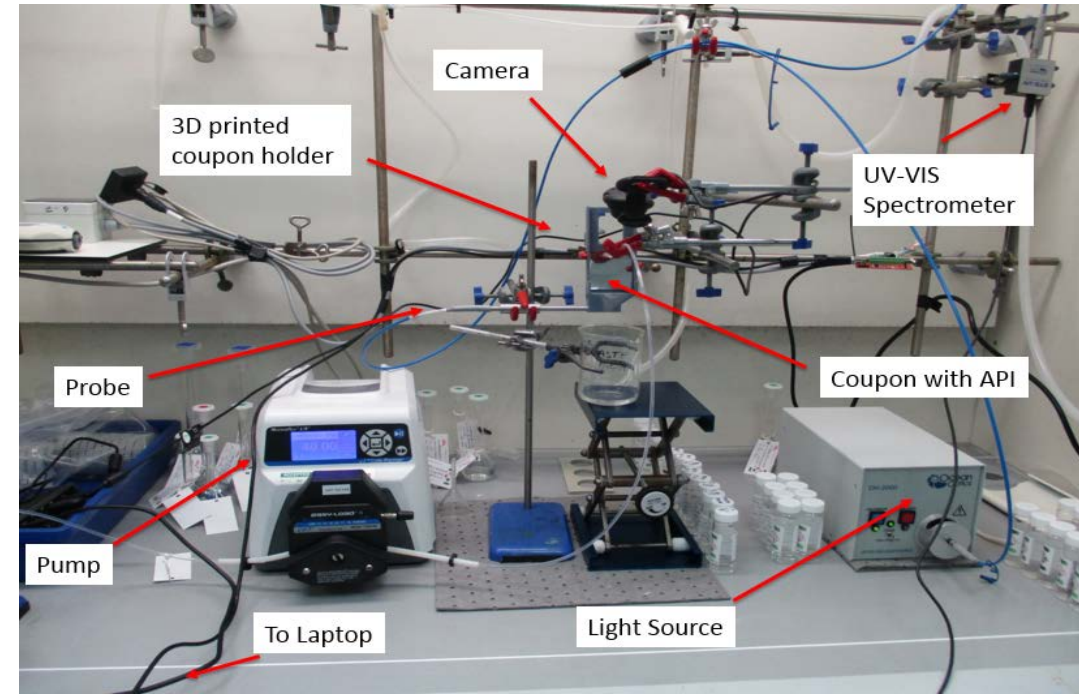
- Use in-situ UV-Vis Spectroscopy
- Piloted by PMTC Researchers, Darren Whitaker and Vincent Cregan
  - Relatively inexpensive Ocean Optics hardware
  - Demonstrated with Paracetamol



# Rinse Recovery Studies for Cleaning Validation

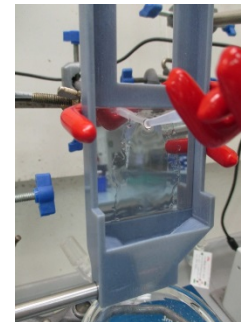
## Success

- Set-up transferred to Lilly
  - UCD Undergraduate, Laura Young
  - Ocean Optics hardware upgraded
  - PMTC researchers visit to Lilly and vice versa, conference calls, etc.
  - Lilly API used.
    - Results compared with traditional study
    - Dilute solutions (2 x Limit of Quantitation)
- Pharma companies visited Lilly to review
- High technical readiness level



## Next steps

- Improve set-up with PMTC
  - Absorption into 3D printed coupon holder
  - Uniform printing of coupons using Photon Systems ChemCal
- Use in a validated cleaning study



**Any Questions...  
Just Ask!**

