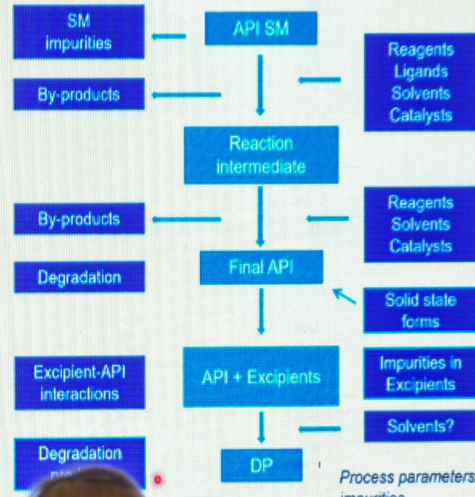
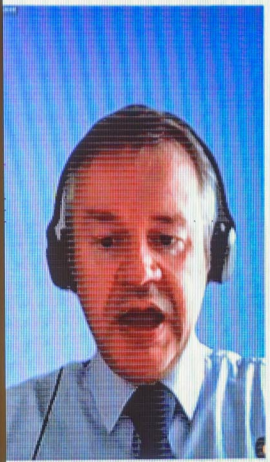




# Sources of Impurities



## Potential Impurities

- Starting material (SM)
- Intermediate
- Impurities - SM
- Reagents
- Ligands
- Solvents
- Catalysts
- Reaction by-products
- Degradation products
- Excipient-API interactions
- Impurities in excipients
- Impurities in solvents
- Impurities in reagents
- Solid state forms

Process parameters like Temp., Time and ... control of impurities.