

# FFDC Workshop



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# BLENDING TECHNIQUES IN PERFUMERY & AROMATHERAPY

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# CONSIDERATIONS

- PHYSICAL MIXING
- MATERIAL STATE & PROPERTY
- SCALE OF OPERATION
- METHOD OF MIXING
  - MANUAL
  - USE OF POWER
- LEVEL OF AUTOMATION
- MANPOWER
  - SKILLED
  - UNSKILLED

# CHEMICAL FUNCTIONAL GROUPS

- HYDROCARBONS
- ALCOHOL
- ALDEHYDE / KETONES
- ESTERS
- ETHERS
- PHENOLS
- OXIMES/ NITRILES/ NITRO /AMINO
- SULPHIDES
- HALO COMPOUNDS

# OPERATION DETAILS

- SMALL -SCALE ACTIVITY
- MECHANICAL ACTIVITY
- COMPUTER-AIDED ACTIVITY
- SEGREGATION OF INGREDIENTS
- SEQUENCE OF ADDITION

# PLANT DESIGN

- STORAGE AREA
- BLENDING VESSEL
- FILLING ACTIVITY
- PACKING / DESPATCH AREA

# AUTOMATIC PROCESS

- LARGE-SCALE OPERATION
- USE OF ROBOT
- DATA STORAGE IN COMPUTER
- HIGH-SKILL REQUIREMENT
- MAINTENANCE
- ACCURACY
- CONFIDENTIALITY

# CONCLUSIONS

- BLENDING IS PHYSICAL ACTIVITY
- SOURCING OF INGREDIENTS
- QUALITY OF INGREDIENTS
- PROPERTY OF INGREDIENTS
- STORAGE OF INGREDIENTS
- HANDLING OF MATERIALS
- SAFETY AWARENESS