# SMOKING TECHNOLOGY

# **Smoking Technology**

Smoking technology arose long ago, and has been used as a method of long-term preservation. The advantages of exposing food to smoke are several: a more preserved food, enhanced flavor and the prevention of infestations of the several.

### The processing of smoked fish involves five major steps

- Selection, handling and preparation of raw material
- Brining/salting
- Hanging and drying
- Smoking
- Packaging





# Compounds identified in wood smoke

- Acids
- Alcohols
- Carbonyls
- Esters
- Furans
- Lactones
- Phenols
- Miscellaneous



# Factors affecting the smoking

- Pre-salting
- Smoke
- Raw material
- Smoking time

temperature



### Wood source in smoking



### Smoke can be obtained in two forms;

- In gas
- In liquid

# Smoke (In gas form)

The pyrolysis of lignin (310-500°C)

The pyrolysis of lignin (310-500°C)

Smoke (In liquid form)

Desolved wood pyrolisate water

### Major phases of smoke

- Particle phase
- Gas phase
- Condensing phase



### **Smoking methods**

### Application methods

- Wood smoke
- Liquid smoking
- Elektrostatic smoking

### **Temperature**

- Cold smoking-a few weeks (12-25°C)
- Warm smoking- 1-3 hours (25-50°C)
- Hot smoking -20-60 min.(50-80°C)







### **Smoking procedure**

