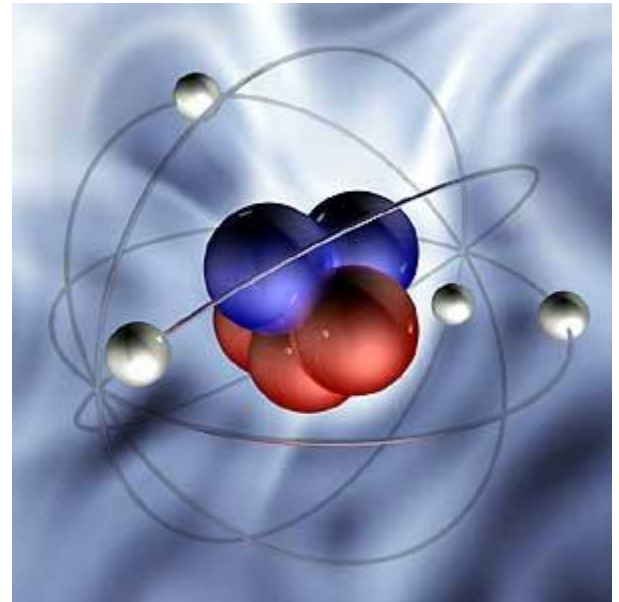


CHEMISTRY IN OUR LIFE

Done by 201-R group

The Chemical Universe

- Chemistry is the study of atoms
- Atoms are the building blocks of nature
- Chemical Science is shaping our future



Chemistry of Flowers

Smell a Flower

- The Fragrance is Chemistry

See a Flower

- The Colours are Chemistry

Touch a Flower

- The Structure is Chemistry



Chemistry in the Home

- Everything in your home is Chemistry
- Shower Gel, Wallpaper, Baked Beans...
- Teflon[™] was discovered by accident
- Energy efficient, colour changing buildings

Paints



Pigment

- Particles to add colour

Matte Paints

- Particles to add texture

Non-Drip Paints

- Polymers to change consistency

Improved Performance

- Our leisure time has been changed by Chemical Science
- Computer parts, sports equipment
- Carbon fibre is 3 times stronger than steel
- Better flat screen displays

Flat Screen Displays

The past

- Cathode ray tubes

The present

- Liquid Crystals
- Plasma displays

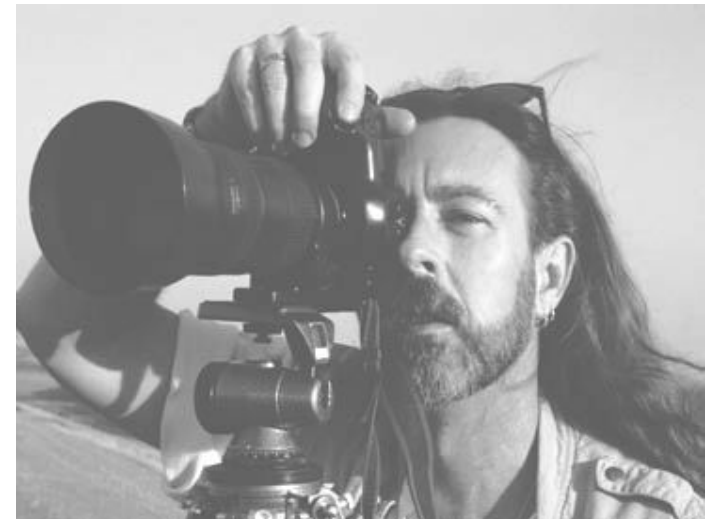
The future

- Light emitting polymers
- Electronic Ink



Photography

- Chemistry makes the film
- Chemistry develops the image
- Chemistry prints the picture



Cooking is Chemistry

- Chemical changes are responsible for changes in flavour and texture
- Chemistry keeps food fresh
- Most E-numbers are naturally occurring
- Healthy Cream Cakes!

Ice Cream

- Complex Structure
 - Ice
 - Fat
 - Air
 - Sugar
- Stability



Energy is Chemistry



- Chemistry can be used to store energy
- Batteries are chemistry
- The Space Shuttle's solid rockets burn 10 tonnes of fuel per second
- Cleaner sources of energy

Petrol

- Drilling Fluids
- Refining
- Fuel Additives
- Catalytic Converters



Green Chemistry

-Chemical science that is environmentally friendly

-More efficient production of the chemicals we need

-53% of people recycle paper - only 23% recycle plastic

-Cars powered by hydrogen

Organic Farming

- Use of *natural* pesticides and fertilisers
- Chemists isolate, develop and make these
- Even organic pesticides are chemicals!



Fashion

- Looking good is down to chemical science
- 2-in-1 shampoos, non-iron shirts
- Toothpaste and paint have many similar ingredients
- Self-cleaning clothes

Synthetic Dyes

- Desired Colour
- Dye fastness
- Novel properties



Healthier Lives

The background of the slide is a dark blue, textured surface. Scattered across this surface are approximately 12 pink, oval-shaped pills. The pills are arranged in a somewhat circular pattern, with some in the foreground and others receding into the background. The lighting creates soft shadows and highlights on the pills, giving them a three-dimensional appearance.

-All medicines use chemical science

-Clean water through chemical science

-We live twice as long now as 100 years ago

-Cures for Cancer, AIDS...

Asthma Drugs

Container

- Plastic shell

Active Ingredient

- Pharmaceutical

Spray Formation

- Aerosol



Biochemistry

-Human body is made up of 100 trillion cells

-Adult body is 50-65% water

-Carbon is key element in the body

-22 amino acid structures

Body chemistry

- Proteins-digest foods, fight infections, build organs, move muscles
- Enzymes are proteins
- Blood and oxygen
- DNA-genetic molecule

THANK YOU FOR YOUR ATTENTION!