## **Chemical Bonding**

**Ionic bond** – bond between inorganic ions (e.g. Na+ and Cl-)

**Covalent bond** – bond beween atoms in molecules (e.g. CH<sub>4</sub> and H<sub>2</sub>O), may be single, double, or triple bond.

- may be equal distribution of charge (CH<sub>4</sub>)... non-polar... hydrophobic
- may be unequal distribution of charge (H<sub>2</sub>O) (a.k.nolipole)... polar...

Desilide bond – bond between Sulphur atoms
Important in protein folding for
proper configuration and function.
Cys=Cys molecules determine
shape of molecule.

**Hydrogen bond** – weak attraction between oppositely charged atoms in a dipole, or between dipoles (particularly in the presence of -OH, -C=O, >N-H groups)