

### 9. Future work

Based on ToF-SSIMS analysis of plasma deposited allylamine and allyl alcohol films it was proposed that retention of monomer units, i.e., functional groups, varies with respect to external plasma parameters. An advanced experiment may involve the use of derivatization techniques to ascertain the surface concentration of functional groups in the plasma deposited polymer films prepared at different plasma conditions supported by XPS calibration for more quantitative analysis.

To improve our understanding on relation between external plasma parameters and structures of plasma deposited polymer films, further research may involve investigation of the internal plasma parameters. Valuable information could be extracted from an investigation of the internal plasma parameters and their relation with the external plasma parameters.